UUU UUU	UUU UUU			PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP	\$	YYY YYY
UUU UUU	UUU UUU	EEE		PPF PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP	SSSSSSSSSSS SSS	YYY YYY
UUU	UUU	EEE	111	PPP PPP	\$\$\$ \$\$\$	YYY YYY
UUU	ŬŬŬ	ĔĔĔ	ήήή	PPP PPP	\$\$\$	YYY YYY
ŬŬŬ	ŬŬŬ	ĔĔĔ	ΪŤ	PPP PPP	ŠŠŠ	'''YYY YYY'''
ŬŬŬ	ŬŬŬ	ĔĔĔ	ŤŤŤ	PPP PPP	ŠŠŠ	ÝÝÝ ÝÝÝ
UUU	UUU	ÉEÉ	TTT	PPP PPP	ŠŠŠ	YYY YYY
UUU	UUU	EEEEEEEEEE	TTT	PPPPPPPPPPP	SSSSSSSS	YYY
UUU	UUU	EEEEEEEEEE	TTT	PPPPPPPPPPP	SSSSSSSS	YYY
UUU	UUU	EEEEEEEEEEE	ŢŢŢ	PPPPPPPPPPP	SSSSSSSS	YYY
UUU	UUU	EEE	ŢŢŢ	PPP	SSS	YYY
UUU	UUU	EEE	TTT	PPP	SSS	YYY
UUU	UUU	EEE	TTT	PPP	SSS	YYY
UUU	UUU	EEE	TTT	PPP	SSS	YYY
UUU	UUU	EEE	TTT	PPP	SSS	YYY
UUU	UUU	EEE	TTT	PPP	SSS	YYY
	JUUUUUUUU	EEEEEEEEEEEEE	TTT	PPP	SSSSSSSSSS	YYY
	UUUUUUUU	EEEEEEEEEEEEE	TTT	PPP	SSSSSSSSSS	YYY
UUUUUUU	JUUUUUUUU	EEEEEEEEEEEEE	TTT	PPP	SSSSSSSSSS	YYY

	EEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEE		NN	TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	000000 000000 00 00 00 00 00 00 00 00 00	11 111 1111 11111 111 11 11 11 11 11 11	••••
LL LL LL LL LL LL LL LL LL LL		\$					

Page

CTRL/C Handler Error Message

Error Exit

Exit Handler

UETINIT01

(2) (3) (4) (5)

(6) (11)

(13)(14) (15)(16)

(18)

(19)

(20) (21) (23) (24) (25) (26) (27)

(28)

1466

1899 1946 1991

2052

```
.TITLE UETINITO1 VAX/VMS UETP SYSTEM CONFIGURATION SIZER .IDENT 'VO4-000'
0000
0000
                        .ENABLE SUPPRESSION
0000
                  COPYRIGHT (c) 1978, 1980, 1982, 1984 BY DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.
            ; *
0000
                  ALL RIGHTS RESERVED.
0000
          10
0000
          11
             *
                  THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED
                  ONLY IN ACCORDANCE WITH THE TERMS OF SUCH LICENSE AND WITH THE INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR ANY OTHER COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY OTHER PERSON. NO TITLE TO AND OWNERSHIP OF THE SOFTWARE IS HEREBY
         12
0000
0000
0000
          14
0000
          15
0000
                  TRANSFERRED.
          16
             *
0000
          17
0000
         18
                  THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE
0000
          19
                  AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT
                  CORPORATION.
0000
          21
0000
0000
                  DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS
0000
                  SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
0000
0000
0000
0000
0000
0000
0000
             : FACILITY:
0000
                       This module will be distributed with VAX/VMS under the [SYSTEST]
0000
                       account.
0000
          34
35
               ABSTRACT:
0000
0000
                       This program creates a file called UETINIDEV.DAT containing all device
0000
                       names and unit numbers of devices that are supported by the UETP.
          37
0000
                       Various lists internal to VMS are searched to collect this information.
0000
                       As this file is being created, the device, if supported, has a quick
          39
                       test done on it to make sure that it is basically functional. If the device is not functional it is deselected from further UETP
0000
0000
                       testing by modifying UETINIDEV.DAT.
0000
         41
0000
0000
               ENVIRONMENT:
0000
                       This program will run primarily in user access mode, with ASTs enabled
0000
         46
0000
```

except during error processing. The UETP\$CLSIODB subroutine runs in kernel mode. We require the following privileges and quotas:

CMKRNL GRPNAM **TMPMBX**

: NUTHOR: Larry D. Jones.

CREATION DATE: November, 1980

MODIFIED BY:

 55

57

V03-008 RNH0009

Richard N. Holstein, 06-Jul-1984

UE VO

```
58
59
                                 Add NOA as known, but not testable.
0000
0000
                       V03-007 RNH0008
                                                     Richard N. Holstein,
                                                                                   15-Feb-1984
ŎŎŎŎ
          61
                                 Take advantage of the new UETP message codes. Fix SSERROR interaction with RMS_ERROR. Fix algorithm which checks for
         63
0000
0000
                                 known, but not testable devices.
0000
                       V03-006 RNH0007
                                                     Richard N. Holstein,
                                                                                   10-Jul-1983
ŎŎŎŎ
                                 Add NDA as known, but not testable.
          67
0000
0000
                       V03-005 RNH0006
                                                      Richard N. Holstein.
                                                                                   06-Mar-1983
         69
70
ŎŎŌŎ
                                 Be even more cautious if a process hangs - time out $DELPRC.
ŎŎŎŎ
0000
                       V03-004 RNH0005
                                                     Richard N. Holstein,
                                                                                   14-Jan-1983
0000
                                 Define SYSSERROR as NL: for the device test subprocesses.
0000
         74 75 76 77
0000
                       V03-003 RNH0004
                                                     Richard N. Holstein,
0000
                                  Convert to use UETP$CLSIODB routine to search VMS's I/O
                                 database. Redesign logic which deals with known, but untestable devices. fix SSERROR to be reentrent. Have AST routines specifically set up SSERROR as their error handler as necessary. Clean out the remains of pre-V2. Miscellaneous fixes listed in the V3B UETP Workplan. Indent lines copied from subprocess device test log files.
0000
0000
0000
0000
0000
         80
0000
         81
0000
0000
                       V03-002 RNH0003
                                 RNH0003 Richard N. Holstein, 22-Jun-1982 Fixed problem of ACCVIO in kernal mode if a controller has no
0000
0000
         85
                                 units connected to it. Related problems of bogus line in
0000
                                 UETINIDEV.DAT and wrong unit number in error messages also
0000
                                 fixed.
0000
         88
                                 LDJ0003 Larry D. Jones, 15-Apr-1982 fixed MA780 extra UCB record in the inidev file bug.
0000
         89
90
91
92
93
                       V03-001 LDJ0003
0000
0000
0000
                                                     Richard N. Holstein,
                                                                                   18-jan-9182
                                 Increase TEXT_BUffER size to hold larger messages. Fix
0000
         94
95
0000
                                 bug where BBS tested mask instead of bit position.
0000
         96
97
0000
                       V02-006 RNP0003
                                                     Robert N. Perron,
                                                                                   31-Dec-1981
0000
                                 Removed upper casing of begin sentinels
0000
                       V02-005 RNP0002
                                                     Robert N. Perron,
0000
                                                                                   23-Dec-1981
0000
                                 fixed so that non-supported devices do not appear in
        101
0000
                                 UETINIDEV.DAT. Added device summary printout to SUC_EXIT and
        102
ŎŎŎŎ
                                 removed printing of DDB and UCB lines. Fixed handling of
0000
                                 remote terminals - skip them.
0000
        104
0000
        105
                       V02-004 RNP0001
                                                                                   05-Nov-1981
                                                     Robert N. Perron,
0000
        106
                                 Modified to allow batch execution.
0000
        107
0000
        108
                       V02-003 LDJ0002
                                                                                   14-0ct-1981
                                                     Larry D. Jones,
                                 Reset DNTM before creating each new subprocess.
0000
        109
0000
        110
0000
        111
                       V02-002 RNH0001
                                                                                   05-0ct-1981
                                                     Richard N. Holstein,
        112
0000
                                 Change SS$_CONTROLC to be a warning. Use secondary device
0000
                                 characteristics for DDB devices as appropriate. Remove
0000
                                 ALWAYS flag - it prevents useful info from being typed and
        114
```

UE VO

```
.SBTTL Declarations
                       1234567890
                                INCLUDE FILES:
              ŎŎŎŎ
              0000
              0000
              0000
                                MACROS:
              0000
                                                                                      ; Accounting definitions
; Condition handler frame definitions
; Device classes and types
              0000
                                         SACCDEF
              0000
                        131
                                         SCHFDEF
              0000
                       132
133
134
135
136
137
138
139
                                         $DCDEF
              0000
                                         $DIBDEF
                                                                                        Device Information Block
              0000
                                        $DVIDEF
                                                                                        $GETDVI ITMLST item codes
                                                                                     ; $010 function codes
              0000
                                        $10DEF
              0000
                                        SJPIDEF
                                                                                        JPI definitions
                                                                                     : Process quota list definitions : Section definitions
              0000
                                        SPQLDEF
              0000
                                        $SECDEF
              0000
                                        $SHRDEF
                                                                                      ; Shared messages
                       140
141
142
143
              0000
                                        $SSDEF
                                                                                      ; System service status codes
              0000
                                        $STSDEF
                                                                                      ; Status return
              0000
                                        SUETIDBDEF
                                                                                      : UETP I/O database definitions
              0000
                                        SUETPDEF
                                                                                      ; UETP
                       144
145
146
147
              0000
              0000
                                EQUATED SYMBOLS:
              0000
              0000
                                  Facility number definitions:
    RMS$_FACILITY = 1
                       148
0000001
              0000
                        149
              0000
                       150
151
              0000
                                   SHR message definitions:
                                        UETP = UETP$_FACILITY@STS$V_FAC_NO; Make a mask of UETP facility code UETP$_ABENDD = UETP!SHR$_ABENDD; Define the UETP message codes UETP$_BEGIND = UETP!SHR$_BEGIND UETP$_ENDEDD = UETP!SHR$_ENDEDD UETP$_OPENIN = UETP!SHR$_OPENIN
              0000
00740000
                       152
153
154
155
007410E0
              0000
00741038
             0000
             0000
00741080
00741098
             0000
                       156
157
             0000
00741130
                                        UETPS_TEXT = UETP!SHRS_TEXT
              0000
                       158 ;
              0000
                                  Internal flag bits...:
SHRT_RPRTV = 0
              0000
                       159
00000000
                                                                                      ; Set if short report format desired
                                        BEGIN_MSGV
00000001
             0000
                       160
                                                         = 1
                                                                                      ; Set when "begin" msg has been output
                                  ...and corresponding masks:
SHRT RPRIM = TashRT RPRIV
BEGIN_MSGM = TabegIN_MSGV
              0000
                       161 ;
                       162
00000001
              0000
00000002
             0000
              0000
                       164
                                  Miscellany:
LC_BITM
REC_SIZE
TEXT_BUFFER
              0000
                       165 ;
00000020
              ŎŎŎŎ
                                                            = ^X20
                       166
                                                                                      ; Mask to convert lower case to upper
00000028
              0000
                                                                                        UETINIDEV.DAT maximum record size
                        167
                                                            = 40
                                        TEXT BUFFER = 250
SS STNCH EFN = 3
MAX_DEV_DESIG = 10
MAX_UNIT_DESIG= 5
MBX_SIZE = 256
MAX_SUMM_LINE = 80
INDENT = 4
00000FA
              0000
                                                                                      ; Internal text buffer size
                        168
                                                                                      ; Synch miscellaneous system services
00000003
              0000
                        169
                       170
                                                                                     ; Longest possible controller name
000000A
              0000
                                                                                     : Longest possible unit number ; Mailbox buffer size
00000005
              0000
                       172
173
00000100
              0000
00000050
              0000
                                                                                      ; Longest summary line we'll create
; Indentation when copying log files
              0000
                                         INDENT
00000004
                                                            = 4
```

(3)

```
VAX/VMS UETP SYSTEM CONFIGURATION SIZER 16-SEP-1984 00:24:38 VAX/VMS Macro V04-00 Read-Only Data 5-SEP-1984 04:35:35 [UETPSY.SRC]UETINITO1.MAR;1
UETINITO1
V04-000
                                                        176
177
                                                                       .SBTTL Read-Only Data
                                          0000000
                                                                                 RODATA NOEXE NOWRT PAGE
                                                                        .PSECT
                                               0000
                                                        178
                                                        179 ACNT_NAME:
                                               ŎŎŎŎ
                                                                                                               : Process name on exit
53 45 54 53 59 53 00000008'010E0000'
                                               0000
                                                        180
                                                                       .ASCID /SYSTEST/
                                               OOOE
                                               ŎŎŌĔ
                                                        182 TEST_NAME:
                                               000F
                                                                                                               : This test name
49 4E 49 54 45 55 00000017'010E0000'
                                               000F
                                                                       .ASCID /UETINITO1/
                                               001D
                                               0020
                                                        185 SUPDEV_GBLSEC:
                                                                                                               ; How we access UETSUPDEV.DAT
50 55 53 54 45 55 00000028'010E0000'
                                               0020
                                                                                /UETSUPDEV/
                                                                       .ASCID
                                               002E
0031
                                  56 45 44
                                                        187
                                                        188
                                                             MODE:
                                                                                                               : Run mode logical name
        45 44 4F 4D 00000039'010E0000'
                                               0031
                                                        189
                                                                       .ASCID /MODE/
                                               003D
                                                        190
                                                             REPORT_NAME:
                                               003D
                                                        191
                                                                                                               : Long or short report indicator
                                                        192
54 52 4F 50 45 52 00000045'010E0000'
                                               003D
                                                                       .ASCID /REPORT/
                                                                                                                : See note where $TRNLOG is done
                                                        193
                                               004B
                                                        194
                                               004B
                                                             EQUA1:
                                                        195
           45 4E 4F 00000053'010E0000'
                                               004B
                                                                       .ASCID /ONE/
                                               0056
                                                        196
                                                        197
                                               0056
                                                             SUBPROC_ERROR:
                                                                                                               : SYSSERROR for the device tests
                                                        198
            3A 4C 4E 0000005E'010E0000'
                                               0056
                                                                       .ASCID /NL:/
                                                        199
                                               0061
                                               0061
                                                        200
                                                            SYS$COMMAND:
                                                                                                               ; Name of device from which we...
4F 43 24 53 59 53 00000069'010E0000'
                                               0061
                                                        201
                                                                       .ASCID /SYS$COMMAND/
                                                                                                               : ...get any input
                           44 4E 41 4D 4D
                                               006F
                                               0074
                                                        202
203
                                               0074
                                                             NO_RMS_AST_TABLE:
                                                                                                               ; List of errors for which...
                                                                                RMS$_BLN
RMS$_BUSY
RMS$_CDA
RMS$_FAB
RMS$_RAB
                                                                       LONG
                                  00000000
                                                        ŽÕ4
                                               0074
                                                                                                               ; ...RMS cannot deliver an AST...
                                  00000000
                                               0078
                                                        205
                                                                       .LONG
                                                                                                                 ...even if one has an ERR= arg
                                  00000000
                                                        206
                                               0070
                                                                                                                 Note that we can search table...
...via MATCHC since <31:16>...
                                                                       .LONG
                                                        ŽÕŽ
                                  00000000
                                                                       .LONG
                                  00000000
                                                                        .LONG
                                                                                                                ; ...pattern can't be in <15:0>
                                                        209 NRAT_LENGTH = .-NO_RMS_AST_TABLE
                                  00000014
                                                             COMMAND_ITMLST:
                                                                                                               ; $GETDVI arg list for SYS$COMMAND
                                                                                4.DVIS_DEVCLASS
DEVBUF 0
64.DVIS_DEVNAM
                                 0004 0004
                                                                       .WORD
                                                                                                                 We need the device class...
                       0000000 000002DF 1
                                                                       .LONG
                       0000003B'00000043'
                                                                       .WORD
                                                                                                               : ...and the equivalence name
                                               0098
                                                                                 BUFFER, BUFFER PTR
                                                                       .LONG
                                                        216
                                  0000000
                                               OOAO
                                                                       .LONG
                                                                                                                : Terminate the list
                                               00A4
                                                            CLSIODB_ARGLST:
                                                                                                               : What we send to UETP$CLSIODB
                                  0000004
                                               00A4
                                                                       .LONG
           00000499'00000491'000004A1'
                                                        220
                                               8A00
                                                                       .ADDRESS CLSPTR, LCLPTR, MPMPTR
                                  0000001D
                                               0084
                                                                       .LONG UIDFLAGSM_DDB!UIDFLAGSM_UCB!UIDFLAGSM_MPM!UIDFLAGSM_SID
                                               0088
                                               00B8
                                                               There is some trickiness in using the following. We have a table of short
                                                               ASCIC strings to compare against a short ASCIC device name. If we just used a MATCHC of ASCII strings on ASCII strings, one string could "slur" into the next, resulting in a bogus match. With ASCIC strings though, the length byte (assuming "short" strings of all printable characters!) serves as a marker to prevent string overlap and allows the MATCHC to work as we wish.
                                               0088
                                               00B8
                                               00B8
                                               00B8
                                               00B8
```

VAX/VMS UETP SYSTEM CONFIGURATION SIZER Read-Only Data	16-SEP-1984 00:24:38 5-SEP-1984 04:35:35	VAX/VMS Macro V04-00 Page [UETPSY.SRC]UETINITO1.MAR; 1	(6)
weed only beld	J-367-1704 04.33.33	LUEIPST.SKUJUEIINITUT.MAK;	(3)

41 50 4F QQ'	OBB 229 KNOWN_BUT_NOT_TESTABLE:	; Start of ASCIC string table ; Operator console name
41 53 43 00'	OB8 OBC 231 .ASCIC /CSA/	; Diagnostic load device name
41 4C 4E QQ'	0BC 0CO 232 .ASCIC /NLA/	; Null device
41 52 43 00'	000 004 233 .ASCIC /CRA/	; first card reader
42 52 43 00'	0C4 0C8 234 .ASCIC /CRB/	; Second card reader
41 54 52 00'	OCE OCC 235 .ASCIC /RTA/ OCC	; Remote terminals
54 45 4E QQ'	ODO 236 .ASCIC /NET/	; Networks
41 42 4D 00'	0D4 237 .ASCIC /MBA/	; Mailboxes (local)
42 42 4D 00'	ODB 238 .ASCIC /MBB/	; Mailboxes (shared memory)
41 44 4E 00'	ODC 239 .ASCIC /NDA/	; Network dummy
41 4F 4E 00'	OEO .ASCIC /NOA/	; Asynchronous DECnet
20 54 50 00'	0E4 241 .ASCIC /PT /	; Generic UDA for magtapes
20 55 50 00'	OE8 242 .ASCIC /PU /	; Generic UDA for disks
20 41 50 00'	OEC 243 .ASCIC /PA /	; Generic CI as a cluster connect
20 4E 43 00'	ŎFŎ 244 .ASCIC /CN / OFO	; DECnet over a CI
20 4A 43 00'	ŎFĂ 245 .ASCIC /CJ / OFA	; Generic common journalling
0000040 00000100	OF8 246 KBNT_LENGTH =KNOWN_BUT_NOT_TESTABLE OF8 247 .BLKB 8 100 248	; Space for patching other devices
21 20 42 58 32 21 00000108'010E0000'	100	; Device class and type control string
2A 20 42 58 32 21 0000011A'010E0000'	112	; Device class-only control string
20 2A 2A 20 20 20 0000012A'010E0000'	122 254 122 255 MPM_CS: 122 256 .ASCID / ** / 130 257	; Faked \$FAO result ;from MPM "characteristics"
0000013C' 0000014D' 00000162'	122	; Table of overhead lines ;that begin UETCONTOO.DAT
00000003 50 54 45 55 20 3D 20 45 4D 41 4E 00' 30 30 56 45 44	13C	; Phase name for the device test phase
10	13C 14D 265 LOG_NAME:	; UETCONTOO file log name

```
16-SEP-1984 00:24:38 VAX/VMS Macro V04-00 
5-SEP-1984 04:35:35 EUETPSY.SRCJUETINIT01.MAR;1
UETINITO1
                                    VAX/VMS UETP SYSTEM CONFIGURATION SIZER
V04-000
                                    Read-Only Data
50 54 45 55 20 3D 20 20 47 4F 4C 00'
47 4F 4C 2E 30 30 56 45 44
                                                               .ASCIC /LOG = UETPDEVOO.LOG/
                                          0159
                                          014D
                                          0162
                                                  267 HEADER_REC:
                                                                                                    : UETCONTOO.DAT init records
69 76 65 44 20 50 54 45 55 20 21 73 61 68 50 20 74 73 65 54 20 65
                                     00'
63
                                          0162
                                                               .ASCIC /! UETP Device Test Phase/
                                          017A
                                     18
                                          0162
                                                  269
270 THREEMIN:
                                          017B
                                          017B
                                                                                                     Time out value when creating...
                    FFFFFFF 94B62E00
                                                               .LONG
                                          017B
                                                                        -10*1000*1000*180.-1
                                                                                                    : ...device test subprocesses
                                                      ONEMIN:
                                                                                                    : Time out when $DELPRCing...
                    FFFFFFF DC3CBA00
                                                               .LONG
                                                                        -10+1000+1000 50.-1
                                                                                                    : ...device test subprocesses
                                          018B
                                                  276 BLANK_LINE_PTR:
                                                                                                    ; $PUTMSG MSGVEC for writing blank line
                             0001 0003
                                                               .WORD
                              00741131
                                          018F
                                                               .LONG
                                                                        UETPS_TEXT!STS$K_SUCCESS
                                                  279
                              00000001
                                          0193
                                                               .LONG
                              000001AB
                                          0197
                                                               .ADDRESS BLANK_LINE
                                          019B
                                          019B
                                                      LOG_BEGIN:
                                                                                                   ; $PUTMSG MSGVEC for copying log file
                             000F 0003
                                                               .WORD
                                          019B
                              00748081
                                                               .LONG
                                          019F
                                                                        UETP$_COPY_LOG
                              00000001
                                                  285
                                          01A3
                                                               .LONG
                              000004A91
                                         01A7
                                                               .ADDRESS TESTING MSG
                                          01AB
                                          01AB
                                                  288 BLANK_LINE:
                                         Ŏ1AB
                    000001B3'010E0000'
                                                  289
                                                               .ASCID //
                                                                                                   ; This line intentionally left blank
                                          01B3
                                                  290
                                          01B3
                                                  291
                                                      LOGEXT:
                                                                                                   ; Log file type
                           47 4F 4C 2E
                                         01B3
                                                               .ASCII /.LOG/
                                          01B7
                                          01B7
                                                  294 CONT_STR:
                                                                                                   : Control string for UETCONTOO records
41 21 20 59 20 59 000001BF'010E0000'
                                         01B7
                                                               .ASCID /Y Y !AS "!AS"/
                 22 53 41 21 22 20 53
                                          0105
                                          0100
                                                  297 TEST_COUNT:
                                                                                                   ; Testable count logical name...
; ...for UETCONTOO file
                                          01 C C
43 5F 54 53 45 54 000001D4'010E0000'
                                         01CC
                                                               .ASCID /TEST_COUNT/
                           54 4E 55 4F
                                          01DA
                                          01DE
                                                  300 TST_CNT_STR:
                                          OIDE
                                                                                                   : Control string for UETCONTOO records
          4C 55 21 000001E6'010E0000'
                                          OIDE
                                                               .ASCID /!UL/
                                                  302
303 DDB_CTRSTR:
304 .AS
                                          01E9
                                                                                                   : UETINIDEV.DAT...
20 54 20 42 44 44 000001F1'010E0000'
                                          01E9
                                                               .ASCID /DDB T !AC/
                                                                                                    : ...DDB record control string
                               43 41 21
                                          01F7
                                          01FA
                                                  306 UCB_CTRSTR:
307 .AS
                                          01FA
                                                                                                   ; UETINIDEV.DAT...
20 54 20 42 43 55 00000202'010E0000' 57 5A 35 21
                                          01FA
                                                               .ASCID /UCB T !5ZW/
                                                                                                    : ... UCB record control string
```

END_MSGL = .-END_MSG

; UETINIDEV.DAT...

.ASCII /END OF UETINIDEV.DAT/ : ...ending message

020c

020C 020C 0218 0220 0220

00000014

4E 49 54 45 55 20 46 4F 20 44 4E 45 54 41 44 2E 56 45 44 49

309 END_MSG: 310 UE

V(

```
VAX/VMS UETP SYSTEM CONFIGURATION SIŽER 16-SEP-1984 00:24:38 VAX/VMS Macro V04-00 Read-Only Data 5-SEP-1984 04:35:35 [UETPSY.SRC]UETINITO1.MAR;1
UETINITO1
V04-000
                                                      313 JPI_LIST:
                                                                    .WORD 4.JPI$_UIC
.ADDRESS UIC.O
.WORD 4.JPI$_ASTLM
                                                                                                         : List for the $GETJPI service
                      0000000100000000
                                                      ₹16
                                0409 0004
                      00000000100000051
                                                                     .ADDRESS ASTLM,
                                                                     .WORD 4,JPIS BIOLM .ADDRESS BIOLM,O
                                0310 0004
                      000000010000000
                                                                     .WORD 4,JPI$_DIOLM
                      00000000 0000000 °
                                                                     .ADDRESS DIOLMTO
                                                                     .WORD 4, JPIS TOLM .ADDRESS TOLM, 0
                                0410 0004
                      000000001000000141
                                 00000000
                                                                     .LONG 0
                                                      326 CONT_DESC:
327 .W
                                                                                                              Desc used to convert controller...
                                0003 0000
                                                                     .WORD 0.3
                                                                                                            : ...from lowercase to uppercase
                                 000000491
                                                                     .ADDRESS BUFFER+6
                                              0268
                                                      330 MPM_LITERAL:
                                              0268
                                                                                                            ; Shared memory must be called 'MPM'
                              4D 50 4D 00'
                                                                   .ASCIC /MPM/
                                                      333 TESTABLE:
                                                                                                              Message summarizing testable units
                                                                    .REPT MAX_DEV_DESIG+1
                                                                                                            : Leave space for controller (which...
                                                      335
                                                                     .ASCII / /
                                                                                                            : ...is overwritten) and colon
                                                                    .ENDR
20 20 20 65 6C 62 61 74 73 65 74 20
20 20
                                              0277
                                                                     .ASCII / testable
                                                                                                            ; Corresponds to UNTESTABLE
                                              0283
                                 00000019
                                              0285
                                                      338 TESTABLE_LEN = .-TESTABLE
                                                      340 UNTESTABLE:
                                                                                                            ; Message summarizing untestable units
                                                                    .REPT
                                                                              MAX_DEV_DESIG+1
                                                                                                            : Corresponds to TESTABLE
                                                                     .ASCII / /
                                                                    .ENDR
20 65 6C 62 61 74 73 65 74 6E 75 20 20
                                             0290
                                                                     .ASCII / untestable /
                                                                                                           : Also corresponds to TESTABLE
                                              0290
                                              029E
                                                      345 .IIF NE .-UNTESTABLE-TESTABLE_LEN, .ERROR ; TESTABLE & UNTESTABLE must be same lengt
                                                      347 NONE :
                                                                                                           ; Message saying no testable units
                              65 6E 6F 6E
                                                                     .ASCII /none/
                                 00000004
                                                      349 NONE_LEN = .-NONE
                                                      352 SUMM_HEADER:
353 .ASC:
53 20 2A 2A 2A 2O 000002AA'010E0000'
65 74 20 66 6F 20 79 72 61 6D 6D 75
75 20 64 6E 61 20 55 6C 62 61 74 73
65 64 20 65 6C 62 61 74 73 65 74 6E
2A 2A 2A 2O 2E 73 65 63 69 76
                                                                    .ASCID / *** Summary of testable and untestable devices. ***/
                                              02BC
                                              02DE
                                                      354
355 FORMAT_ERR_MSG:
20 72 6F 72 72 45 000002E6'010E0000'
56 45 44 49 4E 49 54 45 55 20 6E 69
2E 74 61 6D 72 6F 66 20 54 41 44 2E
                                                                    .ASCID /Error in UETINIDEV.DAT format./
                                              02EC
                                                      357
358 START_DESC:
359 .ASO
360
                                              0304
                                                                                                           ; Sentinel for...
    4E 49 47 45 42 0000030C'010E0000'
                                             0304
                                                                     .ASCID /BEGIN/
                                                                                                           : ...start of useful log file info
```

```
STOP_DESC:
                                                                                                                                                     ; Sentinel for...
                                                                          362
363
364 FNF_MSG:
365
                                                               ŎŽÍÍ
      44 45 44 4E 45 00000319'010E0000'
                                                                                               .ASCID /ENDED/
                                                                                                                                                       ...end of useful log file info
                                                               031E
                                                               031E
                                                                                                                                                    ; Message for missing subprocess log
                         4C 00000326'010E0000'
20 53 41 21 20 65 6C
6E 75 6F 66 20 74 6F
69 74 73 65 74 20 6D
65 6C 6C 6F 72 74 6E
                    6F
77
64
6E
72
                                                                                               .ASCID /Log file !AS was not found from testing controller !AS./
               61 20 620
                                                               0344
                                                               0350
                                                               035C
                                                               035D
                                                                          366
367 FLK_MSG:
                                                               035D
                                                                                                                                                     ; Proc hasn't terminated, can't get log
69 66 20
6F 6C 20
65 74 20
6F 72 74
                              00000365'010E0000'53 41 21 20 65 60 66 20 64 65 68 63 20 67 6E 69 74 73 21 20 72 65 60 60
               67
73
60
6E
                    6F
69
6F
6F
53
                         4C
20
72
63
41
                                                               035D
036B
0377
                                                                                               .ASCID /Log file !AS is locked from testing controller !AS./
                                                               0383
                                                               038F
                                                               0398
                                                                          369
370 CNTRLCMSG:
371 .A
                                                               0398
65 74 72 6F 62 41 000003A0'010E00000'72 65 73 75 20 61 20 61 69 76 20 64 43 2F 4C 52 54 43 20
                                                               0398
                                                                                               .ASCID \Aborted via a user CTRL/C\
                                                               03A6
                                                               03B2
                                                                          372
373 FILE:
374
                                                               0389
                                                               03B9
                                                                                                                                                    ; Fills in RMS_ERR_STRING
           65 6C 69 66 000003C1'010E0000'
                                                               0389
                                                                                               .ASCID /file/
                                                                           375 RECORT:
                                                               U3C5
                                                                                                                                                     ; Fills in RMS_ERR_STRING
 64 72 6F 63 65 72 000003CD'010E0000'
                                                               0305
                                                                                                .ASCID /record/
                                                                           377 RMS_ERR_STRING:
                                                               03D3
                                                                                                                                                     ; Announces an RMS error
41 21 20 53 4D 52 000003DB'010E0000'
66 20 6E 69 20 72 6F 72 72 65 20 53
44 41 21 20 65 6C 69
                                                               03D3
                                                                                               .ASCID /RMS !AS error in file !AD/
                                                               03E1
                                                               03ED
                                                              03F4
03F4
0402
040E
                                                                           380 GETDVI_FAIL:
56 44 54 45 47 24 000003FC'010E0000'
73 20 2D 20 64 65 6C 69 61 66 20 49
3A 73 61 77 20 73 75 74 61 74
                                                                                              .ASCID /$GETDVI failed - status was:/
                                                               0418
0418
0418
0426
043E
043E
                                                                          382
383
                                                                                 CLSIODB_FAIL:
65 6C 62 61 6E 55 00000420'010E0000'
73 69 6C 20 64 61 65 72 20 6F 74 20
73 65 63 69 76 65 64 20 66 6F 20 74
74 20 65 6C 62 61 6C 69 61 76 61 20
65 74 73 79 73 20 73 69 68 74 20 6F
2E 6D
                                                                                               .ASCID /Unable to read list of devices available to this system./
                                                               0458
                                                                          386 BAD_PO_LIST:
61 67 65 6C 6C 49 00000460'010E0000'
20 6E 69 20 74 61 6D 72 6F 66 20 6C
69 76 65 64 20 66 6F 20 74 73 69 6C
6C 62 61 6C 69 61 76 61 20 73 65 63
79 73 20 73 69 68 74 20 6F 74 20 65
2E 6D 65 74 73
                                                                                               .ASCID /Illegal format in list of devices available to this system./
                                                               0472
                                                               047E
                                                               048A
                                                               0496
                                                               049B
                                                                           389 MBXW_Q10_FAIL:
                                                               049B
          4F 49 51 24 000004A3'010E0000'
6E 65 68 77 20 64 65 6C 69 61
69 61 6D 20 67 6E 69 74 69 72
                                                               0498
                                                                                               TASCID /$QIO failed when writing mailbox - status was:/
```

UETINITO1 VAX/VMS UET V04-000 Read-Only D	C 7 P SYSTEM CONFIGURATION SIZER 16-SEP-1984 00:24:38 VAX/VMS Macro V04-00 Page 10 ata 5-SEP-1984 04:35:35 [UETPSY.SRC]UETINIT01.MAR;1 (3)
20 73 75 74 61 74 73 20 20 20 78 6F 04C1 3A 73 61 77 04CD 04D1	391
66 20 4f 49 51 24 000004D9'010E0000' 04D1 63 20 6E 65 68 77 20 64 65 6C 69 61 04DF 70 62 75 73 20 67 6E 69 74 51 55 72 04EB 61 74 73 20 2D 20 73 73 55 63 6F 72 04F7 3A 73 61 77 20 73 75 74 0503 050B	392 CREPRC_QIO_FAIL: 393 .ASCID /\$QIO failed when creating subprocess - status was:/
050B 050B 20 72 6f 72 72 45 00000513'010E0000' 050B 20 53 41 21 20 67 6E 69 6E 6E 75 72 0519 6C 6C 6F 72 74 6E 6F 63 20 72 6F 66 0525 6E 69 66 20 2D 20 5 41 21 20 72 65 0531 61 77 20 73 75 74 61 74 73 20 6C 61 053D 3A 73 0549	394 395 SUBPROCESS_FAIL: 396 .ASCID /Error running !AS for controller !AS - final status was:/
3A 73 0549 0548 0548 65 74 20 53 41 21 00000553'010E0000' 0548 6F 72 74 6E 6F 63 20 67 6E 69 74 73 0559 73 61 77 20 53 41 21 20 72 65 6C 6C 0565 44 24 28 20 64 65 70 70 6F 74 73 20 0571 25 21 20 74 61 20 29 43 52 50 4C 45 0570	397 398 PROCESS_STOP_MSG: 399 .ASCID \!AS testing controller !AS was stopped (\$DELPRC) at !%T\-
20 65 73 75 61 63 65 62 5F 21 2F 21 058A 75 68 20 64 65 6D 65 65 73 20 74 69 0596 73 75 61 63 65 62 20 72 6F 20 67 6E 05A2 20 31 30 54 49 4E 49 54 45 55 20 65 05AE 2E 64 65 74 72 6F 62 61 20 73 61 77 058A	\!/!_because it seemed hung or because UETINITO1 was aborted.\
05C6 05C6	<pre>401</pre>
65 74 20 53 41 21 000005CE'010E0000' 05C6 6F 72 74 6E 6F 63 20 67 6E 69 74 73 05D4 64 69 64 20 53 41 21 20 72 65 6C 6C 05E0 65 64 20 70 6F 74 73 20 74 6F 6E 20 05EC 52 50 4C 45 44 24 20 65 74 69 70 73 05F8	### Hessage if \$DELPRC couldn't stop proc ####################################
2E 43 0604 65 67 6E 6F 6C 20 6F 4E 5F 21 2F 21 0606 21 28 20 67 6E 69 74 69 61 77 20 72 0612 20 65 68 74 20 72 6F 66 20 29 54 25 061E 20 6E 6F 67 74 61 6E 69 6D 72 65 74 062A 2E 78 6F 62 6C 69 61 6D 0636	\!/!_No longer waiting (!%T) for the termination mailbox.\

```
063E
0000000
                   407
                                .SBTTL
                                         Read/Write Data
                   408
                                .PSECT
                                         RWDATA, WRT, NOEXE, PAGE
            0000
                   409
            0000
                   410 UIC:
                                                                   : Our UIC
 0000000
           0000
                                         0
                   411
                                 LONG
                   412
            0004
                       QUOTA_LIST:
                                                                   : Quota list for created subprocess
       01
           0004
                                .BYTE
                                        PQL$_ASTLM
            0005
                   414 ASTLM:
 0000000
           0005
                                .LONG
                   415
           0009
                   416
                                .BYTE
                                         PQL$_BIOLM
                       BIOLM:
            A000
                   417
 00000000
                   418
           000A
                                .LONG
           000E
       05
                                .BYTE
                                         PQL$_DIOLM
                   420 DIOLM:
            000F
 00000000
           000F
                                .LONG
           0013
       09
                                         Par S_TOELM
                                BYTE.
                   423 TOLM:
           0014
 0000000
           0014
                                .LONG
       00
           0018
                                .BYTE
                                         PQL$_LISTEND
           0019
           0019
                       TTCHAN:
                                                                   ; Channe associated with ctrl. term.
     0000
           0019
                                . WORD
                                         0
           001B
           001B
                       MBXCHN:
                   430
                                                                   : Mailbox channels - termination mbx
     0000
           001B
                                 . WORD
                                         0
           001D
                       MBX_UNIT:
                                                                   ; Unit number for termination mailbox
     0000
           001D
                                         0
                                 . WORD
           001F
           001F
                       MBX1_CHAN:
                                                                   : SYS$INPUT of created subprocesses
     0000
           001F
                                .WORD
                                         0
           0021
                   438
                       FLAG:
                                                                   ; Miscellaneous flag bits
     0000
                   439
           0021
                                .WORD
                                         0
                                                                   : (See Equated Symbo's for definitions)
           0023
                   440
                       LOG_RCD:
                                                                     Message vector for $PUTMSG
                   442
     0003
                                .WORD
                                                                     Arg count
     0001
                                 MUSD
                                         ^B0001
                                                                     Message only flag
 00741130
                                .LONG
                                         UETPS TEXT
                                                                     Message ID
     0001
           002B
                   445
                                . WORD
                                                                     FAO arg count
     0000
                                . WORD
                                                                     No new msq flags
                   447
                       MSG_PTR:
 0000003B
                   448
           002F
                                .LONG
                                         BUFFER_PTR
                                                                   : Message buffer for $PUTMSG
            0033
            00 3
                   450
                       FAO_BUF:
                                                                   ; FAO output string descriptor
0000 00FA
           0033
                                . WORD
                   451
                                        TEXT BUFFER, O
00000043'
           0037
                                 .ADDRESS BUFFER
            003B
                   453
                       BUFFER_PTR:
                                                                   ; Fake .ASCID buffer for misc. strings
0000 00FA
           003B
                   454
                                . WORD
                                        TEXT BUFFER, O
                                                                   ; A word for length, a word for desc.
                                .ADDRESS BUFFER
                   455
000000431
           003F
            0043
                   456
                       BUFFER:
                                                                   ; fAO output and other misc. buffer
 0000013D
           0043
                   457
                                .BLKB
                                        TEXT_BUFFER
            013D
            013D
                   459 FAO_ALT:
                                                                   ; FAO output string descriptor #2
           0130
 00000050
                   460
                                .LONG
                                        MAX_SUMM_LINE
                                 .ADDRESS ALTBUF
 0000014D'
                   461
                       ALTBUF_PTR:
            0145
                                                                   ; Output string descriptor #2
 00000000
                                         0
           0145
                                .LONG
```

```
0000014D' 0149
                                         .ADDRESS ALTBUF
                    014D
                            465 ALTBUF:
                                                                           : fAO output buffer #2
          0000019D
                            466
                                         .BLKB
                                                 MAX_SUMM_LINE
                            467
                            468
                                DEVDSC:
                                                                           ; Device name descriptor ; This gets filled at runtime
          000001A5
                            469
                                         .BLKL
                    01A5
                            471 MBX_BUF:
         000002A5
                                         .BLKB
                                                 MBX_SIZE
                                                                           : Mailbox read buffer
                                TEST_DSC:
                                                                             Device test file name descriptor...
         000000D .
                                         .LONG
                                                                           : ... for the subprocess we create
                                          ADDRESS TEST_IMAGE
                                TEST_IMAGE:
                                                                           : Device test file name
         000002BA
                                         .BLKB
                                                 13
                            480 PIDADR:
                                                                             Receives PID of the subprocesses...
          00000000
                            481
                                         .LONG
                                                                           : ...we create for each controller
                                LOGNAM DSC:
                                                                           ; Descriptor for log file name
          0000000
                                         .LONG
          000002661
                                         .ADDRESS LOGNAM
                               LOGNAM:
                            486
         000002D7
                            487
                                         .BLKB
                                                 17
                    02D7
                    02D7
                            489 DEV:
                                                                           : Device Information Block
          00000074
                    0207
                            490
                                         .LONG
                                                 DIBSK LENGTH
         000002DF 1
                    02DB
                                         .ADDRESS DEVBOF
                                DEVBUF:
                    02DF
         00000353
                            493
                                         .BLKB
                                                 DIB$K_LENGTH
                                ERROR_COUNT:
                                                                           : Cumulative error count at runtime
         00000000
                                                 0
                                         .LONG
                            498 STATUS:
                                                                           ; Status value on program exit
         00000000
                                                 0
                            499
                                         .LONG
                                QUAD_STATUS:
                                                                           ; Status block for return from...
0000000 0000000
                                                 0
                                         .QUAD
                                                                           : ...miscellaneous asynch services
                            503
                                INADDRESS:
                                                                           : $CRMPSC address storage
0000000 0000000
                            505
                                          LONG
                                                 0.0
                                OUTADDRESS:
0000000 0000000
                            507
                                                 0.0
                                         .LONG
                            509 TST_CNT:
                                                                           : Count of UETCONTOO data records
         00000000
                                                 0
                                         .LONG
                                MSG_BLOCK:
                                                                           : Auxiliary $GETMSG info
          0000037B
                            513
                                         .BLKB
                            514
                            515 EXIT_DESC:
                                                                           ; Exit handler descriptor
          00000000
                    037B
                            516
                                         .LONG
          00000F16
                            517
                    037F
                                         .ADDRESS EXIT_HANDLER
          00000001
                            518
                    0383
                                         .LONG 1
                            519
                                         .ADDRESS STATUS
          00000357
                    0387
                            520
                    038B
```

20

04B9

547

.ENDR

```
521 ARG_COUNT:
522 .LC
523
524 TEMP_BUFF E
525 .AC
                              038B
038B
                                                                                           ; Argument counter used by ERROR_EXIT
                  00000000
                                                     .LONG
                                           0000 00FA
00000397'
                                                                                           ; Temp buffer to hold capitalized...
                                                     .ADDRESS TEMP_BUFF_STR
                                                                                           : ...record to check for sentinel
                                           TEMP_BUFF_STR:
                  00000491
                                                     .BLKB TEXT_BUFFER
                                      530 LCLPTR:
531
532
533 MPMPTR:
534
535
                                                                                           ; Receives results of UETP$CLSIODB...
       00000000 00000000
                                                     .LONG
                                                              0,0
                                                                                           ; ... call for local peripherals
                                                                                           ; Receives results of UETP$CLSIODB...
       0000000 0000000
                                                     .LONG
                                                              0.0
                                                                                           ; ... call for shared memories
                              04A1
                                      536 CLSPTR: 537
                              04A1
                                                                                           ; Receives results of UETP$CLSIODB...
       0000000 0000000
                                                     .LONG
                              04A1
                                                              0.0
                                                                                           ; ... call for cluster peripherals
                                       538
                              04A9
                                      539 TESTING_MSG:
                              04A9
                                                                                           ; This becomes part of the message...
                 0000 0000
                                       540
                                                     .WORD
                              04A9
                                                              0,0
                                                                                           ; ... surrounding a copy of a...
                                      ADDRESS .+4

ASCII /testing /

S43 TESTING_MSG_LENGTH = .-TESTING_MSG-8

S44 TESTING_MSG_TEXT:

REPEAT MAX_DEV_DESIG

ASCII / /
000004B1'
20 67 6E 69 74 73 65 74
                              04AD
                                                                                           : ...log file from a subprocess
                              04B1
                  80000008
                              0489
                              0489
                              04B9
                              0489
                                                                                           : Gets overwritten with controller name
```

00000770 076A

.BLKB

```
VAX/VMS UETP SYSTEM CONFIGURATION SIZER 16-SEP-1984 00:24:38 VAX/VMS Macro V04-00 RMS-32 Data Structures 5-SEP-1984 04:35:35 [UETPSY.SRC]UETINITO1.MAR;1
                                 .SBTTL RMS-32 Data Structures
                   550
                                 .ALIGN LONG
                   552 INI_FAB:
553
554
555
                                                                      : Allocate FAB for UETINIDEV
                                 SFAB-
                                 FAC = <GET, PUT, UPD, TRN>,-
                                 RAT = (R,-
SHR = <GÉT, PUT, UPI>,-
FNM = <UETINIDÉV.DAT>
                   559 INI_RAB:
                                                                      ; Allocate RAB for UETINIDEV
                    560
                                 SRAB-
                    561
                                 FAB = INI FAB,-
UBF = BUFFER,-
                   562
563
                                 RBF = BUFFER -
           0514
                    564
                                 USZ = REC_SIZE
                    565
                   566 SUP FAB:
                                                                      : Allocate FAB for UETSUPDEV
                   567
                                 SFAB-
                                 FAC = GET .-
                                 SHR = <UPÍ,GET>,-
                                 FOP = UFO.-
                                 FNM = <UETSUPDEV.DAT>
           0558
                   571
                   572
573 (ON_FAB:
           05A8
           05A8
                                                                      : Allocate FAB for UETCONTOO
                   5/4
575
           05A8
                                 SFAB-
                                 FAC = <PUT> .-
           05A8
           05A8
                   576
                                 RAT = CR.-
                                 FNM = <UETCONTOO.DAT>
                   577
                   579 CON_RAB:
                                                                      : Allocate RAB for UETCONTOO
                   580
                                $RAB-
                   581
                                 FAB = CON FAP
                   582
583 LOG_FAB:
                                                                      ; Allocate FAB for UETINITO1 log
                                SFAB
                                          FNM = <UETINITO1.LOG>.-
                                          RAT = CR,-
FAC = PUT
                   585
                   587 LOG_RAB:
                                                                      ; Allocate RAB for UETINITO1 log
                                SRAB
                                          FAB = LOG_FAB,-
                   589
                                          RBF = BUFFER,-
                                          KSZ = TFXT BUFFER
                   590
                   591
                       TMPLOG_FAB:
                                                                      : Allocate FAB for subprocess log
                                SFAR
                                          RAT = CR,-
                   594
                                          FAC = GET
                   596 TMPLOG_RAB:
                                                                      ; Allocate RAB for subprocess log
                                SRAB
                   597
                                          FAB = TMPLOG_FAB,-
                   598
                                          UBF = BUFFER,-
           0720
                   599
                                          USZ = TEXT_BUFFER
           0764
                   600 DDB_RFA:
                                                                      ; Storage for current DDB RFA
                                 .BLKB
0000076A
           0764
                   601
                   602 END_RFA:
           076A
                                                                      ; Storage for END line RFA
```

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(6)

```
16-SEP-1984 00:24:38 VAX/VMS Macro V04-00 
5-SEP-1984 04:35:35 [UETPSY.SRC]UETINITO1.MAR;1
                     Main Program
                                                   .SBTTL Main Program
.PSECT UETINITOT, EXE, NOWRT, PAGE
                                                           - Main Program
                       0000000
                                    606
                            0000
                                    608
                                                   .DEFAULT DISPLACEMENT.WORD
                                    609
                    0000
                                    610
                                         .ENTRY UETINITO1, ^M<>
                                                                                         ; Entry mask
                            0002
0002
                                    611
                                                   Start to set things up. We need our own overhead tasks (exception,
                                                  CTRL/C and exit handlers, name and log file), the items for what we produce (UETINIDEV.DAT, UETCONTOO.DAT) and the means of
                                                  producing them (UETSUPDEV.DAT, various logical names, communication
                                                   for subprocesses).
                                    618
                                           Overhead tasks.
                                    621
                                                  MOVAL SSERROR, (FP)
$SETSFM_S ENBFLG = #1
$DCLEXH_S DESBLK = EXIT_DESC
          0091'CF
                      DE
                                                                                           Declare exception handler
                            0007
                                                                                           Enable system service failure mode
                                    624
625
                            0010
                                                                                         ; Declare an exit handler
                            001B
                                                  $CREATE FAB = LOG_FAB,-
ERR = RMS_ERROR
                            001B
                                                                                         ; Create our own log file
                            001B
                            002A
                                                  $CONNECT RAB = LOG_RAB,-
                            002A
                                                             ERR = RMS_ERROR
                                    630
631
633
633
635
                            0639
                                                            -(SP)
                                                                                            Set the time stamp flag
           000F 'CF
                            003B
                       DF
                                                   PUSHAL TEST_NAME
                                                                                            Set the test name
                            003F
                                                  PUSHL
                       DD
                                                                                            Push the argument count
      00741039 8F
                                                            #UETP$ BEGIND!STS$K_SUCCESS; Set the message code #4,G^LIB$SIGNAL; Print the startup message
                            0041
                       DD
                                                   PUSHL
                      FB
A8
0000000'GF
                            0047
                                                   CALLS
                 Ŏ2
    0021'CF
                                                            #BEGIN_MSGM,FLAG
                            004E
                                                  BISW2
                                                                                            Set flag so we don't type it twice
                                    636
637
                            0053
                                                   $SETPRN_S PRCNAM = TEST_NAME
                                                                                         ; Set the process name
                            005E
                                    638
639
                            005E
                                                  $GETDVI_S DEVNAM = SYS$COMMAND,-
                                                                                             ; Get the name of...
                                                               EFN = #SS SYNCH EFN, - ; ...device which may abort test
ITMLST = COMMAND_ITMLST, -
                            005E
                            005E
                            005E
                                                                 IOSB = QUAD_STATUS
       28 035B'CF
                                                            QUAD_STATUS, 20$'
QUAD_STATUS, R2
FAO_CHECK
                            007A
                                                   BLBS
                                                                                            BR if all went OK
          035B'CF
                            007F
                                                                                            Set up anglist so we can appease...
                                                   MOVZWL
                       30
              0BE 2
                            0084
                                    644
                                                                                            ... LIBSSIGNAL's use of $PUTMSG
                                                   BSBW
                            0087
                                    645
                       DD
                                                   PUSHL
                                                            R2
                                                                                            Save flags and FAO count for $PUTMSG
                 ÕŽ
                       13
                                    646
                            0089
                                                            105
                                                   BEQL
                                                                                            BR if there are no FAO args
                 01
                            008B
                                    647
                       DD
                                                   PUSHL
                                                                                           There are args - save dummy for count
                                    648 105:
                            0080
                       ζ1
30
                            008D
                                    649
                                                            #4,(SP)+,R2
QUAD_STATUS,-(SP)
                                                   ADDL3
                                                                                           Pop bogus arg and get arg count
           035B'CF
                            0091
                                    650
                                                   MOVZWL
                                                                                           Save the error status
           03F4'CF
                            0096
                       DF
                                    651
                                                            GETDVI_FAIL
                                                   PUSHAL
                                                                                         ; Explain what went wrong
                                    652
                 01
                            009A
                       DD
                                                   PUSHL
      00741132 8F
                            0090
                                                  PUSHL
                       DD
                                                            #UETP$_TEXT!STS$K_ERROR
                            00A2
                                    654
                       DD
                                                   PUSHL
                                                                                         ; Arg count for ERROR_EXIT
                       31
                                    655
                                                            ERROR_EXIT
              ODEF
                            00A4
                                                   BRW
                            00A7
                                    656 20$:
 O2DF'CF
             42 8F
                            00A7
                                    657
                                                   CMPB
                                                            #DC$_TERM, DEVBUF
                                                                                           Were we invoked from a terminal?
                                                  BNEQ
                       12
                            OOAD
                                    658
                                                            30$
                                                                                           BR if not
                                                  $ASSIGN_S DEVNAM = BUFFER_PTR,-
                            OOAF
                                    659
                                                                                         : Set up for CTRL/C ASTs if we were
                            00AF
                                                                 CHAN = TTCHAN
                                    660
```

SQIOW S CHAN = TTCHAN,-

: Enable CTRL/C ASTs...

VAX/VMS UETP SYSTEM CONFIGURATION SIZER

0000

661

```
VAX/VMS UETP SYSTEM CONFIGURATION SIZER 16-SEP-1984 00:24:38 VAX/VMS Macro V04-00 Page 16 Main Program 5-SEP-1984 04:35:35 [UETPSY.SRC]UETINIT01.MAR;1 (6)
```

```
FUNC = #10$_SETMODE!IO$M_CTRLCAST,-
P1 = CCASTHAND
                                      663
                             ŎŎĊŎ
            000F 'CF
                                                    PUSHAL
                                      664
                                                              TEST_NAME
                                                                                            ; ...and tell the user...
                        DD
                             00E5
                                      665
                                                    PUSHL
                                                              #1
       0074832B
                        DD
                             00E7
                                                    PUSHL
                                                              #UETP$ ABORTC!STS$K_SUCCESS
                                      666
 0000000 GF
                        FB
                  03
                             OOED
                                      667
                                                              #3.G^LTB$SIGNAL
                                                    CALLS
                                                                                           ; ...how to abort gracefully
                             00F4
                                      668
                             00F4
                                      669; What we produce.
                                      670
                             00F4
                                          305:
                                      671
                             00F4
                                     672
673
                                                    $CREATE FAB = INI_FAB,-
                             00F4
                                                                                            : Create UETINIDEV.DAT
                                                    ERR = RMS_ERRÓR
$CONNECT RAB = INI_RAB,+
                             00F4
                                      674
675
                             0103
                                                              ERR = RMS_ERROR
CON_RAB_R11
                             0103
                                      676
677
            05F8'CF
      5B
                             0112
                        DE
                                                    MOVAL
                                                                                            ; Set the RAB pointer for UETCONTOO.DAT
                             0117
                                                    $CREATE FAB = CON_FAB,-
                                                                                            : Create UETCONTOO.DAT
                             0117
                                      678
                                                              ERR = RMSTERROR
                                      679
                                                    SCONNECT RAB = (RT1),-
                             0126
                             0126
                                      680
                                                               ERR = RMS_ERROR
                  5A
                        D4
                                      681
                                                    CLRL
                                                              R10
                                                                                              Initialize counter for overhead lines
                                          405:
                             0135
                                      682
                                                                                              Write UETCONTOO.DAT overhead lines
         0130'CF4A
                        D<sub>0</sub>
                             0135
                                      683
                                                    MOVL
                                                              CONTOO_OVERHEAD[R10],R9;
                                                                                              Point to the next ASCIC overhead line
                        9B
(1
        22 AB
                                                    MOVZBW
                  69
                             013B
                                      684
                                                              (R9), RABSW RSZ(R11)
                                                                                              Set the record size
            59
  28 AB
                  Õ1
                                                              #1,R9,RAB$[_RBF(R11)
                             013F
                                      685
                                                    ADDL3
                                                                                              Set the record address
                             0144
                                      686
                                                    $PUT
                                                              RAB = (R11)_{-}
                                                                                              Write a line
                             0144
                                      687
                                                              ERR = RMS_ERROR
        EO 5A
                  03
                        F2
                             0151
                                      688
                                                    AOBLSS #OVERHEAD_LENGTH,R10,40$; Repeat until overhead lines written
                             0155
                                      689
                             0155
                                      690
                                             What we need to use in order to produce.
                             0155
                                      691
                             0155
                                     692
                                                              FAB = SUP_FAB,-
ERR = RMS_ERROR
                                                    SOPEN
                                                                                            ; Open UETSUPDEV.DAT
                                     693
                             0155
                             0164
                                      694
                                                    $CRMPSC_S INADR = INADDRESS, -
                                                                                            ; Create its global section
                                                                  CHAN = SUP_FAB+FAB$L_STV,-
                                      695
                             0164
                                                               RETADR = OUTADDRESS,-
                             0164
                                      696
                             0164
                                      697
                                                               GSDNAM = SUPDEV GBLSEC. -
FLAGS = #SEC$M_EXPREG!SEC$M_GBL
                             0164
                                      698
                                                    STRNLOG_S RSLBUF = FAO BUF -
                             0180
                                      699
                                                                                           ; Get long or short report format
                                                                LOGNAM = REPORT NAME
                             0180
                                      700
                                            We need not check SS$ NOTRAN; BUFFER will contain 'REPORT' on errors.
BICB2 #LC_BITM,BUFFER ; Convert to upper case
                             01A3
                                      701
                                      702
703
      0043'CF
                             01A3
  0043°CF
              53
                  8F
                        91
                             01A8
                                                    CMPB
                                                              #^A7S/,BUFFER
                                                                                              Do we want a short report?
                        12
88
                             01AE
                                      704
                  05
                                                    BNEQ
                                                              50$
                                                                                            : BR if not
      0021'CF
                                                              #SHRT_RPRTM,FLAG
                  01
                             01B0
                                      705
                                                    BISW2
                                                                                           ; Else set the short report flag bit
                                      706 50$:
                             01B5
                                      707
                             01B5
                                                                                           ; Set group logical name MODE...
                                                    $CRELOG_S TBLFLG = #1,-
                                      708
                             01B5
                                                                LOGNAM = MODE,-
                                                                                            ; ...to ONE
                                      709
                             01B5
                                                                 EQLNAM = EQUAT
                                                    $CREMBX_S CHAN = MBXCHN
$GETCHN_S CHAN = MBXCHN,-
PRIBUF = DEV
                             0168
                                      710
                                                                                           ; (reate subprocess termination mailbox
                             01DB
                                      711
                                                                                           ; Get the mailbox unit number
                             01DB
                                      712
713
                                                    MOVW DEVBUF+DIBSW_UNIT,MBX_UNIT; Save the mailbox unit number $GETJPI_S ITMLST = JPI_LIST = ; Get our current quotas, etc. $CREMBX_S CHAN = MBXT_CHAN,- ; Create SYS$INPUT for subprocessor MAXMSG = #MAX_DEV_DESIG,- LOGNAM = IEST_NAME
001D'CF
            02EB'CF
                        B0
                             01F1
                             01F8
                                      715
                             020D
                                                                                            : Create SYS$INPUT for subprocesses
                             020D
                                      716
                             050D
                                      718 : fall into loop to build UETINIDEV.DAT.
```

```
VAX/VMS UETP SYSTEM CONFIGURATION SIZER 16-SEP-1984 00:24:38 VAX/VMS Macro V04-00 S-SEP-1984 04:35:35 [UETPSY.SRC]UETINIT01.MAR;1
                                               form a representation in user mode PO space of the devices which are visible to this system. Cull from the list those devices which we know of, but know that we have no specific test for. Cull from the remainder those devices we don't know at all (i.e., devices which don't appear in UETSUPDEV.DAT). Use what remains to write UETINIDEV.DAT. See CLSIODB.MAR for a description of the database
                                                              we read. Use the list to see which devices are really testable.
                                                              Note that R10 and R11 remain assigned throughout the range of
                                                              BUILD_INIDEV.
                                                              $CMKRNL_S ROUTIN = UETP$CLSIODB,- ; form a list of devices we can see
                                                                           ARGLST = CLSIODB_ARGLST
                      26 50
50
                                                                        RO,110$
                                                                                                          BR if the list was formed
                                     0236
0239
                                D0
                                                              MOVL
                                                                        RO,R3
                                                                                                          Save status over routine call
                                DO
                                                                        R3.R2
                                                              MOVL
                                                                                                          Set up anglist so we can appease...
                                30
                                     0230
                                               738
                                                                        FAO_CHECK
                                                              BSBW
                                                                                                          ... LIBSSIGNAL'S use of SPUTMSG
                         `$2
02
                                               739
                                DD
13
                                     023F
                                                              PUSHL
                                                                                                          Save flags and FAO count for $PUTMSG
                                                                        100$
                                               740
                                     0241
                                                              BEQL
                                                                                                          BR if there are no FAO args
                          01
                                               741
                                DD
                                     0243
                                                              PUSHL
                                                                                                       ; There are args - save dummy for count
                                              742
743
                                                   1005:
                                     0245
             52
                                     0245
                                C1
                                                              ADDL3
                                                                        #4,(SP)+,R2
                                                                                                       ; Pop bogus arg and get arg count
                                              744
                          53
                                                                        R3
                                DD
                                     0249
                                                              PUSHL
                                                                                                         Save the error status
                   0418'CF
                                DF
                                     024B
                                                              PUSHAL
                                                                        CLSIODB_FAIL
                                                                                                       : Explain what went wrong
                                              746
747
                                     024F
                                DD
                                                              PUSHL
                                     0251
              00741132 8F
                                DD
                                                              PUSHL
                                                                        #UETPS_TEXT!STS$K_ERROR
                                     0257
                                DD
                                               748
                                                              PUSHL
                                                                                                       ; Arg count for ERROR_EXIT
                       0C3A
                                31
                                     0259
                                               749
                                                              BRW
                                                                        ERROR_EXIT
                                     025C
                                               750 110$:
                                     025c
                                              751
                                              752
753
      036F 'CF
                   036B'CF
                                     025C
                                                                        OUTADDRESS, OUTADDRESS+4, R10; Figure UETSUPDEV section length
5A
                                                              SUBL 3
                   0491 'CF
                                     0264
             5B
                                DO
                                                              MOVL
                                                                        LCLPTR,R11
                                                                                                         Point to first local peripheral rec
                                10
                                     0269
                                               754
                                                              BSBB
                                                                        BUILD_INIDEV
                                                                                                         Build UETINIDEV.DAT for local p's
                   0499'CF
                                     026B
                                               755
                                                                        MPMPTR R11
                                DO
             5B
                                                              MOVL
                                                                                                         Point to first shared memory record
                                     0270
0272
0277
                                              756
757
                                10
                                                                                                         Build UETINIDEV.DAT for MPMs
                          0A
                                                                        BUILD INIDEV
                                                              BSBB
             5B
                   04A1'CF
                                DO
                                                              MOVL
                                                                                                         Point to first cluster periph. record
                                10
                                               758
                          03
                                                              BSBB
                                                                        BUILD_INIDEV
                                                                                                         Build UETINIDEV.DAT for clus. periph.
                       025D
                                31
                                     0279
                                               759
                                                                        DO_SUMMARY
                                                              BRW
                                                                                                       ; finish off with summary, etc.
                                     027C
                                               760
                                                   BUILD_INIDEV:
                                               761
                                                                        UIDGNRCSB_TYPE(R11),-
#UIDSK_NUEL_RTYPE,-
#UIDSK_END_RTYPE
                                              762
763
                      06 AB
                                                              CASEB
                                                                                                       ; Dispatch based on record type...
                          00
                                                                                                       ; ...in the list we just got
                          06
                                               764
                              000E'
                                     0281
                                                                                  NUEL RECORD-10$ SID_RECORD-10$
                                               765 10$:
                                                                         .WORD
                              00201 0283
                                               766
                                                                         .WORD
                              000E' 0285
                                               767
                                                                                  PATH_RECORD-10$
                                                                         .WORD
                              0169' 0287
                                               768
                                                                                  DDB RECORD-10$
                                                                         .WORD
                             000É' 0289
0144' 0288
                                               769
                                                                                  UCB_RECORD-10$
                                                                         .WORD
                                               770
                                                                                  MPM_RECORD-10$
                                                                         . WORD
                                              771
772
773
                              001F
                                     028D
                                                                         .WORD
                                                                                   END_RECORD-10$
                                     028F
                                      028F
                                                      Still in BUILD_INIDEV loop
```

; fall into the routine for illegal or out of sequence record types.

```
VAX/VMS UETP SYSTEM CONFIGURATION SIZER 16-SEP-1984 00:24:38 VAX/VMS Macro V04-00 S-SEP-1984 04:35:35 [UETPSY.SRC]UETINIT01.MAR;1
                                  Null records are supposedly used as bookeeping and error recovery devices
                                ; by UETP$CLSIODB. However, there really is no case when they should appear.
                            780 NULL_RECORD:
                                This can be reached two ways. It is the default branch from the CASEB
                                ; above, indicating an illegal record type was seen. We also get here if
                                ; a record is out of sequence, e.g., a UCB record precedes a DDB record.
                            785
                            786 PATH RECORD:
787 UCB_RECORD:
                                         PUSHAL BAD PO_LIST
    0458'CF
                            788
                                                                             ; Explain what went wrong
               DD
                            789
                                         PUSHL
00741132 8F
                                         PUSHL
               DD
                            790
                                                  #UETP$_TEXT!STS$K_ERROR
          03
               DD
31
                            791
                                         PUSHL
                                                                             ; Arg count for ERROR_EXIT
                            792
793
794
795
       OBF 6
                                         BRW
                                                  ERROR_EXIT
                            796
                                ; End records rank the end of a group of records returned by UETP$CLSIODB.
                            798
                           799 END_RECORD:
800 RSB
801
                   OASO
                                         RSB
                   02A1
02A1
```

802; Still in BUILD_INIDEV loop.

UE

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20 (9)

UE VO	TINITO1 94-000			VAX/V Main	/MS UETP SY Program	STEM CONFIGURATI	M 7 ON SIZER 16-SEP-1984 0 5-SEP-1984 0	00:24:38 VAX/VMS Macro V04-00 Page 04:35:35 [UETPSY.SRC]UETINIT01.MAR;1
	5A	014D'CF	0145'CF 036B'DF	39	0323 861 0323 862 033A 863	MATCHC	P1 = R4,- P2 = R5	-;of device class and type
			26	13	0342 0345 865 0347 866 0347 867 0347 868 0347 869	BEQL \$FAO_S	OUTADDRESS 60\$ CTRSTR = CS3,- OUTBUF = FAO_ALT,-	; BR if we have a hit ; Next try a wildcard match
	5A	014D'CF	0145'CF 036B'DF	39	0347 868 0347 869 035C 870 0364		OUTLEN = ALTBUF_PTR,- P1 = R4	;on device class only - ; Match device class only
			04 30 24	13 10 11	0364 0367 871 0367 872 0369 873 0368 874 0360 875	60 \$:	OUTADDRESS 60\$ SUPDEV_CLUS_DENOSU 70\$	<pre>; BR if we matched ; We can't find device - complain ;and skip to the next</pre>
			55 5E	DO	036D 876 036D 877 0370 878 0370 879 0370 880	MOVL \$FAO_S	SP.R5 CTRSTR = DDB_CTRSTR,- OUTLEN = BUFFER_PTR,- OUTBUF = FAO_BUF,- P1 = R5	; Save ASCIC pointer for \$FAO ; Set up a default UETINIDEV DDB line
			0327 03CE 059D 0774	30 30 30 30	0370 881 0385 882 0388 883 038B 884 038E 885	BSBW BSBW	P1 = R5 POTENTIALLY_OK CREATE_SUBPROCESS COPY_LOG_FILE FINISH_CONTROLLER	; Set up UETINIDEV.DAT ; See if the device is really testable ; Copy the results of the test ; Analyze the results of the test
		5E	5E 019D'CF FF14		0391 886 0391 887 0393 888 0398 889 0398 890 0398 891	70\$: INCL ADDL2 BRW	SP DEVDSC,SP 10\$	<pre>; Clean up ASCIC device name ;from the stack ; Loop to process next record</pre>
					0398 892	: We found a de : and skip over	vice class and type wit it.	h no match in UETSUPDEV.DAT. Complain
		00	019D*CF 000F*CF 02 748333 8F	DF DF DD DD FO	039B 895 039B 896 039F 897 03A3 898 03A5 899 03AB 900	SUPDEV_CLUS_DEN PUSHAL PUSHAL PUSHL PUSHL INSV	DEVDSC TEST_NAME #2 #UETP\$_DENOSU #STS\$K_WARNING	; No match at all ;so yell at the user
		0000000	6E 03 0'GF 04	FB	03AD 901 03AE 902 03B0 903 03B7 904	CALLS ; BSBB	#STS\$V_SEVERITY,- #STS\$S_SEVERITY,(SP) #4,G^LTB\$SIGNAL SKIP_CLUS_RECORDS	<pre>; Set the severity code ; And print the message ; fall into SKIP_CLUS_RECORDS</pre>
					03B7 910 03B7 911	; We can't test ; associated UC ; R11 still poi ; look at each ; of a specific ; its type.	Bs. Any complaints abo nts to the DDB record f record we want to skip	reason, so skip over this DDB and any out the situation have been issued. From UETP\$(LSIODB. Note that we must rather than chain to the next record the first record (DDB) without checking
		5	0 04 AB 5B 50	30	0387 913 0387 913 0387 914 0388 915	SKIP_CLUS_RECOR MOVZWL	DS: UIDGNRC\$W_SIZE(R11),RO RO,R11	; Pick up the record length ;and point to the next record

N 7
VAX/VMS UETP SYSTEM CONFIGURATION SIZER 16-SEP-1984 00:24:38 VAX/VMS Macro V04-00 Page 21
Main Program S-SEP-1984 04:35:35 [UETPSY.SRC]UETINIT01.MAR;1 (9)

U

CMPB : Is it a UCB record?

06 AB F3 #UID\$K_UCB_RTYPE, -UIDGNRC\$B_TYPE(R11) SKIP_CLUS_RECORDS BEQL RSB : Loop if so

```
03C5
03C5
03C5
03C5
                                                                          A DDB record has a testable device if the DDB name doesn't appear on the list of known but untestable devices and if the first UCB attached to the
                                                                           DDB has a device class and type that match something in UETSUPDEV.DAT.
                                                                          Because the data returned for shared memory are similar to those for ordinary peripherals, we can share most of the same code. We will
                                                                          occasionally need to pick up data from different places.
                                                                       R10 and R11 are already assigned as the length of the UETSUPDEV section; and the pointer to the current I/O database record, respectively.
                                                                 931
933
933
935
935
                                                                       MPM RECORD:
                                                      03C5
03CA
03CE
03D3
03D6
03E0
                       57 0269'CF
56 FF A7
                                                                                                MPM_LITERAL+1,R7
-1(R7),R6
                                                                                                                                       ; Shared memory name is always 'MPM'; Parallel actions for DDB record
                                                                                    MOVAB
                                                                                    MOVZBL
                                                                                                R6,DEVDSC
R11,R8
MPM_CS,MPM_CS+8,ALTBUF
MPM_CS,ALTBUF_PTR
MPM_AND_DDB_BOTH
                        019D'CF
                                                                 936
                                                7D
                                                                                    MOVQ
                                                                                                                                          Put desc in a safe place
                                58
                                        5B
                                                                 937
                                               DO
                                                                                    MOVL
                                                                                                                                          fake a temp pointer to next record
                                               28
80
                                0122'CF
014D'CF
                                                                 938
                                                                                    MOVC3
                                                                                                                                         Fake $FAO device class and type
                               0122 CF
                                                                 939
                0145 CF
                                                                                    MOVW
                                                                                                                                       : Fake $FAO OUTLEN
                                                      03E7
                                    0082
                                                31
                                                                 940
                                                                                    BRW
                                                      03EA
                                                                 941
                                                                 942
943 DDB_RECORD:
                                                      03EA
                                                      03EA
                                                                                    MOVAB UIDDDB$T_NAME+1(R11),R7; From the ASCIC, form a descriptor...
MOVZBL -1(R7),DEVDSC; ...
MOVL R7,DEVDSC+4; ...to the controller name
                                  OC AB
                                                      03EA
                                                                 944
                   019D 'CF
                                  FF A7
                                                      03EE
                                                                 945
                                                                                   TOVE K/,DEVDSC+4 ; ... to the controller name ; See the note where KNOWN_BUT_NOT_TESTABLE table is defined.

MATCHC DEVDSC,(R7),#KBNT_ENGTH,-; See if specific device is known...

KNOWN_BUT_NOT_TESTABLE ; ... but not testable

BEQL 10$
                        01A1 'CF
                                               00
                                                      03F4
                                                                 946
                                                      03F9
                                                                 947
        0040 8F
                                019D'CF
                                                      03F9
                                                                 948
                        67
                                                                                                KNOWN_BUT_NOT_TESTABLE : ...but not testable 10$ ; BR if we found it in table #1,R7,R0 ; See if generic device is known but... DEVDSC,(R0),#KBNT_LENGTH,- ; ...not testable. (We strip 'c'... KNOWN_BUT_NOT_TESTABLE ; ...of 'devc' but include ASCIC count)
                                00B81CF
                                                      0401
                                                                 949
                                                      0404
                                                                 950
                                                                                    BEQL
                                        11
                                               03
                                                      0406
                                       01
                                                                 951
                                                                                    SUBL 3
        0040 8F
                               019D'CF
                                                39
                                                      040A
                                                                 952
                       60
                                                                                    MATCHC
                                                      0412
                                                                 953
                                00B8'CF
                                               12
                                       03
                                                      0415
                                                                 954
                                                                                    BNEQ
                                                                                                                                         BR if device may be testable
                                                      0417
                                                                 955 10$:
                                               31
                                                      0417
                                    00A3
                                                                 956
                                                                                    BRW
                                                                                                 SKIP_RECORDS
                                                                                                                                       : Device is not testable, skip it
                                                      041A
                                                                 957 20$:
                                                                                                UIDGNRC$W_SIZE(R11),R0 ; Temporarily point...
R0,R11,R8 ; ...to the next record
#UID$K_U(B_RTYPE,- ; Is this a UCB record
UIDGNRC$B_TYPE(R8)
                                  04 AB
50
                           50
                                                      041A
                                                                 958
                                                                                    MOVZWL
                        58
                               5B
                                                                 959
                                                C1
                                                      041E
                                                                                    ADDL3
                                                                                                                                         ... to the next record in the list
                                               91
                                       04
                                                      0422
                                                                 960
                                                                                    CMPB
                                                                                                                                         Is this a UCB record?
                                   06 Å8
03
                                                      0424
                                                                 961
                                                      0426
                                                                 962
                                                                                    BEQL
                                                                                                 30$
                                                                                                SKIP_RECORDS ; BR if not, we can't figure out device UIDUCB$B_DEVCLASS(R8),R4; We now need to check to see... UIDUCB$B_DEVTYPE(R8),R5; ...if this device is known to UETP CTRSTR = CS1,- ; Try first for an exact match...
                                                31
                                    0092
                                                      0428
                                                                 963
                                                                                    BRW
                                               9A
                                                      042B
                                                                 964 30$:
                                   81 90
                                                                                    MOVZBL
                                                      042F
0433
                                   8A A0
                                                                 965
                                                                                    MOVZBL
                                                                 966
                                                                                    SFAO_S
                                                      0433
                                                                 957
                                                                                                 OUTBUF = FAO ALT .-
                                                      0433
                                                                 968
                                                                                                 OUTLEN = ALTBUF_PTR,-
                                                                                                       P1 = R4,-
P2 = R5
                                                      0433
                                                                 969
                                                      0433
                                                      044A
0452
                               0145'CF
               014D'CF
                                                                 971
                                                                                    MATCHC ALTBUF_PTR,ALTBUF,R10,-; ...of device class and type
                                036B'DF
                                                      0455
                                                                                                 aoutaddress
                                                                 973
                                                      0455
                                                13
                                        22
                                                                                    BEQL
                                                                                                 SUPDEV_MATCH
                                                                                                                                       ; BR if we have a hit
                                                                 974
                                                                                    $FAO_S
                                                                                               CTRSTR = CS3,-
                                                                                                                                       ; Next try a wildcard match...
                                                                 975
                                                                                                 OUTBUF = FAO_ALT,-
                                                      0457
                                                      0457
                                                                                                 OUTLEN = ALTBUF_PTR,- ; ...on device class only
```

91

13

31

06 AB

FDA3

04D0

04D4

04D6

1025

1026

CMPB

BEQL

BRW

10\$

BUILD_INIDEV

R6, UIDGNRC\$B_TYPE(R11)

Is this a record we want to skip?

We've skipped intervening records

BR if it is

```
16-SEP-1984 00:24:38 VAX/VMS Macro V04-00 
5-SEP-1984 04:35:35 [UETPSY.SRC]UETINIT01.MAR;1
                             Summarize UETINIDEV.DAT
                                    0409
                                           1029
                                                            .SBTTL Summarize UETINIDEV.DAT
                                    04D9
                                    0409
                                           1031
                                           1032
                                                           We've tried out all the supportable devices in the system and have listed in UETINIDEV.DAT the testable/non-testable status of each.
                                    04D9
                                    0409
                                           1034
                                    04D9
                                                            Summarize those results in a more humanly readable form. We will
                                    04D9
                                           1035
                                                            keep certain register assignments throughout the summary:
                                                                     R11 - Pointer to RAB for UETINIDEV.DAT
                                           1036
                                    04D9
                                    04D9
                                           1037
                                                                     R10 - Count of characters on a line. May use ALTBUF(R10) R9 - Unit record type (T or N) targetted by APPEND UNITS
                                    04D9
                                           1038
                                    0409
                                           1039
                                                                         - Count of unwanted records found by APPEND UNITS
                                    0409
                                           1040
                                                                          - Pointer to string descriptor for SUMM_OUTPUT
                                    04D9
                                           1041
                                           1042
                                    04D9
                                    04D9
                                                 DO_SUMMARY:
                                           1044
                  0514' F
020C'CF
                                                                     INI_RAB,R11
END_MSG,RAB$L_RBF(R11)
            5B
                                    0409
                                                                                                   ; Keep pointer handy to UETINIDEV
; Set the end message address
                                                           MOVAL
                               DĒ
BO
                                    04DE
04E4
04E8
        28 AB
                                           1045
                                                           MOVAL
              22 AB
                                           1046
                                                                     "END MSGL, RAB$W_RSZ(R11); Set the end message size RAB = (R11), - ; Write the end message
                                                           MOVW
                                           1047
                                                           SPUT
                                   04E8
04F5
                                           1048
                                                                      ERR = RMS_ERROR
                                           1049
                                                                     RAB = (R1T)_{AB}
                                                           $FLUSH
                                                                                                    ; Make sure everything gets output
                                    04F5
                                                                      ERR = RMS_ERROR
                                           1050
                                    0502
0502
                                           1051
                                                           SREWIND RAB = (R1T),-
                                                                                                    ; Go back to beginning of UETINIDEV
                                           1052
1053
                                                                      ERR = RMS_ERROR
                                   050F
0514
0516
0519
0526
0526
0533
                  0145'CF
            57
                                                           MOVAL
                                                                      ALTBUF_PTR,R7
                                                                                                     Skip a line before we start...
                                           1054
                               84
30
DE
30
DE
                                                                      (R7)
                                                           CLRW
                      0121
                                                                     SUMM_OUTPUT
SUMM_HEADER,R7
SUMM_OUTPUT
                                           1055
                                                           BSBW
                  02AŽ ČF
0119
                                           1056
1057
            57
                                                           MOVAL
                                                                                                      Set up to output summary header
                                                           BSBW
                                                                                                      Go output line
                                                                     ALTBUF PTR,R7
RAB = (R11),-
                  0145 CF
            57
                                           1058
                                                                                                      We'll write from here, evermore
                                                           MOVAL
                                           1059
                                                           $GET
                                                                                                      Prime pump with the first DDB record
                                                                     ERR = RMS_ERROR
                                           1060
                                           1061
                                                 DDB_LOOP:
                                           1062
                                    0533
                               B4 30
                                                           CLRW
                                                                      (R7)
                                                                                                      Skip a line between controllers
                      0102
                                    0535
                                                                     SUMM OUTPUT
                                                           BSBW
                                                                                                      Go output empty line Is the next line for a DDB?
        0043'CF
                                    0538
                        8F
                                           1064
                                                           CMPB
                                                                     #^A/D/,BUFFER
                               13
                                    053E
                                           1065
                                                                      20$
                                                           BEQL
                                                                                                      BR if it is
                                    0540
        0043'CF
                               91
                                           1066
                                                                     #^A/E/,BUFFER
                     45
                        8F
                                                           CMPB
                                                                                                      Or is it the end of UETINIDEV.DAT?
                        03
                               12
                                    0546
                                           1067
                                                                     105
                                                                                                      BR if not - we have an error
                                                           BNEQ
                      0126
                               31
                                    0548
                                                                     SUC_EXIT
                                           1068
                                                           BRW
                                                                                                      Summary complete, finish UETINITO1
                                    054B
                                           1069 10$:
                                           1070
                                                                                                      Something is wrong with...
...UEŢINIDEV.DAT - output msg and...
                  O2DE CF
                               DF
                                    054B
                                                           PUSHAL
                                                                     FORMAT_ERR_MSG
                                    054F
                                           1071
                               DD
                                                           PUSHL
                                    0551
0557
             00741132 8F
                                           1072
                               DD
                                                           PUSHL
                                                                     #UETP$_TEXT!STS$K_ERROR
                                                                                                      ...quit
                               DD
                                                           PUSHL
                                                                                                     Current arg count
                               31
                                    0559
                      093A
                                           1074
                                                                     ERROR_EXIT
                                                           BRW
                                    055C
                                           1075
                                                 20$:
                                           1076
                                    055C
                                    055C
                                                    We have a DDB line from UETINDEV.DAT. We know that if the controller is
                                    055C
                                           1078
                                                    not testable, no devices will be testable (FINISH_CONTROLLER routine).
                                           1079
                                    055C
                                           1080
            026C*CF
                               28
                                                           MOVC3
                                                                     #TESTABLE_LEN,TESTABLE,- ; Set up initial msg
                  014D'CF
                                    0561
                                           1081
                                                                     ALTBUF
                               DQ
A3
                                           1082
1083
                                                                     #TESTABLE_LEN,R10
#6,RABSW_RSZ(R11),R0
                                    0564
                        19
                                                           MOVL
                                                                                                      Set up count of chars on 'ine
                        06
50
                                    0567
                                                                                                      Calc controller name length
                  AB
                                                            SUBW3
                               28
014D'CF
            0049'CF
                                    0560
                                           1084
                                                                     RO, BUFFER+6, ALTBUF
                                                           MOVC3
                                                                                                      Put controller name in output...
```

...buffer, overwriting blanks

VAX/VMS UETP SYSTEM CONFIGURATION SIZER

0574

1085

			`
63 3A	90 0574 1086 0577 1087 0577 1088	MOVB \$fIND RAB = (R11),- ERR = RMS_ERROR MOVC3 CMPB W^A/T/,BUFFER+4 BEQL UCB T HOVE SFIND RAB = (R11),- HOVE RFA to the first UCB Lout leave BUFFER unscathed Save 1st UCB RFA for poss reread BEQL UCB T HOVE RABSH RFA(R11), END_RFA; Save 1st UCB RFA for poss reread BEQL UCB T HOVE READ ROW FIND READ READ READ READ READ READ READ READ	
076A'CF 10 AB 06 0047'CF 54 8F	28 0584 1089 91 0588 1090 13 0591 1091 28 0593 1092	MOVC3 :6.RAB\$W RFA(R11), END_RFA : Save 1st UCB RFA for poss reread CMPB #^A/T/,BUFFER+4 ; Is DDB marked testable?	ı
10 029E'CF 04 0166'CF	28 0584 1089 91 0588 1090 13 0591 1091 28 0593 1092 0598 1093 B0 059B 1094 30 059E 1095	BEQL UCB T ; BR if it is MOVC3 #NONE LEN, NONE, - ; Indicate DDB has no testable units ALTBUF+TESTABLE LEN	,
67 1D 0099	BO 059B 1094 30 059E 1095	MOVW #TESTABLE_LEN+NONE_LEN,(R7); Set line length indicating that BSBW SUMM_OUTPOT; Write the line	
16 59 54 8F	11 05A1 1096 05A3 1097 UCB_T: 9A 05A3 1098	BRB UCB_R ; Now summarize the untestable units MOVZBL #^A/T/,R9 ; We will search for testable units	
0024	05A3 1097 UCB_T: 9A 05A3 1098 30 05A7 1099 D5 05AA 1100	BSBW APPEND_UNITS ; form line(s) of testable units TSTL R8 : Any untestable units found?	
58 85 1E AB 02 10 AB 076A'CF 06	9A 05A3 1098 30 05A7 1099 D5 05AA 1100 13 05AC 1101 90 05AE 1102 28 05B2 1103	BEQL DDB_LOOP ; Get next controller if not MOVB #RAB\$C_RFA,RAB\$B_RAC(R11) ; Some untestables — we must rerea MOVC3 #6,END_RFA,RAB\$W_RFA(R11) ; Point us back to first UCB	d
19 014D'CF 0285'CF	05B9 1104 UCB_N: 28 05B9 1105 05BB 1106	MOVC3 #TESTABLE_LEN,- ; Set up a line for untestable units UNTESTABLE, ALTBUF	ı
5A 19 59 4E 8F 0003	DO 05C1 1107 9A 05C4 1108	MOVL #TESTABLE_LEN,R10 ; Set up count of chars on line MOVZBL #^A/N/,R9 ; We'll search for untestable units	
FF65	30 05C8 1109 31 05CB 1110	BSBW APPEND_UNITS ; form line(s) of untestable units BRW DDB_LOOP ; This controller is summarized	

```
1112;
1113: Append unit numbers to a line. Wrap around to a new line if the line gets
                                   1115 ; Register assignments are listed near DO_SUMMARY.
                                  1116
1117 APPEND_UNITS:
                            ŎŚČĔ
                           ŎŚČĒ
OŚDŎ
                 58
                                   1118
                       D4
                                                           R8
                                                  CLRL
                                                                                       : Init counter of unwanted records
                                   1119 105:
                                  1119 10$:
1120
1121
1122
1123
1124
1125
1126
1127 20$:
                                                           RAB = (R11), -
                            05D0
                                                  SGET
                                                                                        ; Get some record - our access mode...
                                                           ERR = RMS_ERROR
#RAB$C_SEQ,RAB$B_RAC(R11)
#^A/U/,BUFFER
                            05D0
                                                                                          ...is determined externally
        1E AB
                            05DD
                                                  MOVB
                                                                                         ; We must read UCBs sequentially
                            05E1
05E7
  0043'CF
              55
                 8F
                                                  CMPB
                                                                                         Have we a UCB?
                       13
A3
                 06
06
                                                           20$
                                                  BEQL
                                                                                         Continue on if so
     67
           5A
                            05E9
                                                           #2,R10,(R7)
                                                  SUBW3
                                                                                        : Write line, stripping separator
: Exit APPEND_UNITS via SUMM_OUTPUT
                 4B
                       11
                            05ED
                                                  BRB
                                                           SUMM_OUTPUT
                            05EF
                                  1128
1129
1130
     0047'CF
                 59
                           05EF
                                                  CMPB
                                                           R9.BUFFER+4
                                                                                        ; Is this the kind of unit we want? ; BR if so
                 04
                       13
                            05F4
                                                           30$
                                                  BEQL
                           05F6
05F8
                 58
                                                           R8
                       D6
                                                  INCL
                                                                                         Count opposites if not
                                  1131
                       11
                                                           10$
                 D6
                                                  BRB
                                                                                        : Continue with next record
                                  1132 30$:
                            05FA
                 30
                       3B
                            05FA
                                                  SKPC
                                                           #^A/O/,#MAX_UNIT_DESIG-1,- ; Skip over leading zeros...
           0049'CF
                                  1134
                            05FD
                                                           BUFFER+6
                                                                                           : ...in unit number
                                  1135
                 50
                            0600
                       D6
                                                  INCL
                                                           RO
                                                                                          Compensate for short length search
                                                           #2 RO R2
R10 R2
           50
                 02
     52
                       A1
                            0602
                                   1136
                                                  ADDW3
                                                                                         figure out if we can...
            52
                 5Ā
                       AO
                                   1137
                            0606
                                                  ADDW2
                                                                                        : ...fit unit number and separator...
           0050
     52
                 8F
                       B1
                            0609
                                   1138
                                                  CMPW
                                                                                         ...on this line BR if we will fit
                                                           MMAX_SUMM_LINE,R2
                 15
                       18
                            060E
                                   1139
                                                  BGEQ
                                                           40$
           67
                 5A
                       BÓ
                            0610
                                  1140
                                                  MOVW
                                                           R10,(R7)
                                                                                          We need to wrap to a new line
                 03
                       BB
                            0613
                                   1141
                                                  PUSHR
                                                           #^M<R0,R1>
                                                                                          Save these over routine call
                 23
                       10
                            0615
                                  1142
                                                  BSBB
                                                           SUMM_OUTPUT
                                                                                          Write out the old line first
       00 8F
                           0617
                 00
                       20
                                                           #0,#0,#^A/ /,-
                                                                                         Start out the next line by lining...
                                  1143
                                                  MOVC5
                                                           #TÉSTÁBLE_LEN,ALTBUF
#TESTABLE_LEN,R10
#^M<R0,R15
     014D'CF
                 19
                            061C
                                  1144
                                                                                         ...up next unit beneath the first
           5A
                 19
                       00
                            0620
                                  1145
                                                  MOVL
                                                                                          Reinitialize character count on line
                                  1146
                 03
                            0623
                                                  POPR
                       BA
                                                                                         Restore length and pointer to unit
                            0625
                                  1147 405:
                                  1148
                 50
014D'CA
           61
                            0625
                                                  MOVC3
                                                           RO, (R1), ALTBUF (R10)
                                                                                         Append the unit to the line
                       B0
C3
           202C 8F
                            062B
                                  1149
                                                           W^A/, /, (R3)+
                                                  MOVW
                                                                                          Append separator to that
      0000014D18F
53
                            0630
                                  1150
                                                  SUBL 3
                                                           WALTBUF, R3, R10
                                                                                          Calculate new line length
                       11
                            0638
                                  1151
                                                  BRB
                                                                                          Go look for the next unit
                            063A
                                  1152
                                  1153
                            063A
                                  1154; Write a line to the UCILINATION 1155; write that same line to SYS$OUTPUT also.
                            063A
                                           Write a line to the UETINITO1 log file. If long report is specified,
                            063A
                                  1156 :
1157 SUMM_OUTPUT:
                            063A
                            063A
     O6AE CF
                                  1158
                                                           (R7),LOG_RAB+RAB$W_RSZ ;
                 67
                            063A
                                                  MOVW
                                                                                         Get the message size
              04 A7
                       DO
  06B4 ' CF
                            063F
                                  1159
                                                           4(R7),LOG_RAB+RAB$[_RBF ; Set the message address
                                                  MOVL
                                                           RAB = LOG_RAB, -
ERR = RMS_ERROR
                            0645
                                  1160
                                                  $PUT
                                                                                       ; Write the log file
                            0645
                                  1161
  16 0021'CF
                            0654
                                                           #SHRT_RPRTV,FLAG,10$
R7,MSG_PTR
                       E0
                                  1162
1163
                                                                                       : Skip if short report
                 57
      002F 'CF
                            065A
                                                                                       ; Set up $PUTMSG message descriptor
                                                  SPUTMSG_S MSGVEC = LOG_RCD
                            065F
                                   1164
                                                                                       ; Write everything to SYS$OUTPUT
                            0670
                                   1165 10$:
                            0670
                       05
                                  1166
                                                  RSB
```

```
Page 27 (13)
                               0671 1168 ...
0671 1169
0671 1170 SUC_EXIT:
                                                                  .SBTTL Close Up Shop
                                                                $FAO_S CTRSTR = TST_CNT_STR,- ; Create a string giving...
OUTBUF = FAO_BUF,- ; ...the number of testable controllers
OUTLEN = BUFFER_PTR,-
                                0671 1171
                               0671 1172
0671 1173
0671 1174
                                                                SCRELOG_S TBLFLG = #T,- ; Create a logical name for...
LOGNAM = TEST_COUNT,- ; ...the count of testable controllers
EQLNAM = BUFFER_PTR

MOVL  #SS$_NORMAL!STS$M_INHIB_MSG,- ; Set successful exit status
STATUS

SEXIT_S_CTATUS
                               0688 1175
                               0688 1176
                               0688 1177
10000001 8F
                               069B 1178
                        DO
       0357'CF
                               06A1 1179
                               06A4 1180
                                                                 SEXIT_S STATUS
                                                                                                                          ; Exit with the status
```

```
VAX/VMS UETP SYSTEM CONFIGURATION SIZER 16-SEP-1984 00:24:38 VAX/VMS Macro V04-00 BUILD_INIDEV Routines - POTENTIALLY_OK 5-SEF-1984 04:35:35 [UETPSY.SRC]UETINITO1.MAR;1
                                                                                                                                        Page
                                    1182
1183
                                                     .SBTTL BUILD_INIDEV Routines - POTENTIALLY_OK
                              06AF
                                    1184
                              06AF
                                             We have a device (controller and unit number) that we've identified as
                                             potentially testable. To see if it really is, have its associated image (from UETSUPDEV) check out each unit. The DDB and UCB or MPM info has to be
                              06AF
                                     1185
                                    1186
1187
                              06AF
                                             written to UETINIDEV for that. The DDB line is described by BUFFER PTR and R8 points to the first UCB or MPM record. R3 is left over from a MATCHC.
                              06AF
                              06AF
                                     1188
                              06AF
                                             We are still in the BUILD INIDEV loop, so R10 and R11 are in use as
                                     1189
                              06AF
                                     1190
                                             described therein.
                              06AF
                                     1191
                                    1192 POTENTIALLY OK:
                              06AF
                  53
58
                             06AF
                                                               R3.R9
                                                                                             ; Save pointer to start of image name
                                     1194
            5B
                        DÒ
                             06B2
                                                               R8.R11
                                                     MOVL
                                                                                             ; It's safe to update real datābase ptr
            003B'CF
                                     1195
                         BO
                             06B5
                                                               BUFFER PTR.-
                                                     MOVW
                                                                                             ; Set line size
            0536'CF
                              06B9
                                     1196
                                                               INI_RAB+RAB$W RSZ
                              06BC
                                     1197
                                                     SPUT
                                                               RAB = INI_RAB,-
                                                                                             ; Write a UETINIDEV.DAT line...
                                     1198
                              06BC
                                                               ERR = RMS ERROR
                                                                                             ; ...for the DDB or MPM
      0524'CF U6
                         28
                             06CB
                                     1199
                                                     MOVC3
                                                               #6, INI RAB+RAB$W RFA,-
                                                                                             : Save RFA so we can reread record
            0764 'CF
                             0600
                                                               DDB_RFX
                             06D3
                                     1201 105:
                                     1202
               07 AB
                             06D3
                                                     MOVZWL UIDUCB$W NUMBER(R11),R6; Assume we're looking at a UCB
        56
                         91
                  04
                             06D7
                                                     CMPB
                                                               #UIDSK UCB RTYPE .-
                                                                                             ; But are we really?
               06
                  AB
                             06D9
                                     1204
                                                               UIDGNRC$B_TYPE(R11)
                        13
30
                                     1205
                  04
                             06DB
                                                     BEQL
                                                               20$
                                                                                             ; BR if we are
              07 AB
                                     1206
        56
                             06DD
                                                     MOVZWL
                                                              UIDMPM$W_NUMBER(R11),R6; Get the equivalent MPM value if not
                                     1207
                             06E1
                                           205:
                             06E1
                                     1208
                                                     $FAO_S CTRSTR = UCB_CTRSTR,-
                                                                                             ; Form a UETINIDEV line for UCB or MPM
                             06E1
                                     1209
                                                               OUTLEN = BUFFER PTR.-
                             06E1
                                     1210
                                                               OUTBUF = FAO_BUF,-
                             06E1
                                     1211
                                                                    P1 = R6
            003B'CF
                        B0
                             06F6
                                     1212
                                                     MOVW
                                                               BUFFER PTR .-
                                                                                             : Set line size
            0536'CF
                             06FA
                                     1213
                                                               INI_RAB+RAB$W_RSZ
                                                               RAB = INI RAB,-
ERR = RMS ERROR
                             06FD
                                     1214
                                                     $PUT
                                                                                             ; Write a UETINIDEV.DAT line...
                             06FD
                                     1215
                                                                                               ...for the UCB or MPM
              04 AB
        50
                             070C
                                    1216
                                                               UIDGNRC$W_SIZE(R11),RO
                                                                                             ; Pick up the record length...
                                                     MOVZWL
            5B
                  50
                        CO
                             0710
                                     1217
                                                     ADDL2
                                                               RO, R11
                                                                                               ...to point to the next record
                                                                                             ; ...to point to the a ; Is this also a UCB?
                  04
                        91
                             0713
                                                               #UID$K_UCB_RTYPE,-
                                     1218
                                                     CMPB
                             0715
0717
               06 AB
                                                               UIDGNRCSB_TYPE(R11)
                                     1219
                        13
                  BA
                                                     BEQL
                                                                                             ; BR if it is
                                                                                             ; Or is this also an MPM record?
                  05
                         91
                             0719
                                                     CMPB
                                                               #UID$K_MPM_RTYPE,-
               06 AB
                             071B
                                                               UIDGNRTSB_TYPE(R11)
                        13
                  B4
                             071D
                                                     BEQL
                                                                                             ; BR if it is
                             071F
                        DE
BO
                                                               END_MSG,INI_RAB+RAB$L_RBF; Set up to write end-of-file line #END_MSGL,INI_RAB+RAB$W_RSZ
053C'CF 020C'CF
                             071F
                                     1225
1226
1227
1228
1229
1231
1232
1233
                                                     MOVAL
      0536'CF
                             0726
072B
                                                     MOVU
                                                               RAB = INI_RAB,-
ERR = RMS_ERROR
                                                     $PUT
                                                                                             ; Write the end of file line
                             072B
073A
      0524 CF 06
                         28
                                                               #6,INI_RAB+RAB$W_RFA,-
END_RFA
                                                     MOVC3
                                                                                            ; Save the RFA of the END line...
            076A'CF
                             073F
                                                                                               ... to make truncation faster
                                                              RAB = INI_RAB,- ; Make sure the device test sees...

ERR = RMS_ERROR ; ...everything we think we wrote

BUFFER,INI_RAB+RAB$L_RBF ; Restore typical buffer address
                             0742
0742
                                                     $FLUSH
                                                                                               Make sure the device test sees...
053('CF
            0043'CF
                        DE
05
                             0751
                                                     MOVAL
```

0758

RSB

```
VAX/VMS UETP SYSTEM CONFIGURATION SIZER 16-SEP-1984 00:24:38 VAX/VMS Macro V04-00 BUILD_INIDEV ROUTINES - CREATE_SUBPROCES 5-SEP-1984 04:35:35 [UETPSY.SRC]UETINITO1.MAR;1
UETINITO1
                                                                                                                                                             Page 29 (15)
V04-000
                                                                        .SBTTL BUILD_INIDEV Routines - CREATE_SUBPROCESS
                                               0759
                                               0759
                                                             ; Make the sub-process which will see if the devices found above have any
                                               0759
                                                             : testable units. R9 still points to the start of the image name from
                                               0759
                                                             ; the UETSUPDEV global section. R10 and R11 are in use from BUILD_INIDEV.
                                               0759
                                                      1242
1243
1244
                                                             CREATE_SUBPROCESS:
                                               0759
                                                                       BBS #CHRT_RPRTV,FLAG,10$; Skip separation if short report
$PUTMSG_S MSGVEC = BLANK_LINE_PTR,-; Separate all of this process'...
ACTRTN = ACTRTN ; ...msg's from the previous one's
$QIOW_S CHAN = MBX1_CHAN,- ; Tell process's SYS$INPUT what to test
                   13 0021'CF
                                          E 0
                                               0759
                                               075F
                                               075F
                                                       1245
                                                      1245
1246
1247
1248
1249
1250
1251
1252
1253
                                                                       SQIOW_S CHAN = MBX1_CHAN,- ; Tell pi

EFN = WSS_SYNCH_EFN,-

FUNC = WIOS_WRITEVBLK!IOSM_NOW,-

IOSB = QUAD_STATUS,-

P1 = adevDSC+4,-
                                               Ŏ772
                                               ŎŹŹ
                                               0772
                                                                                    P2 = DEVDSC
                         28 035B'CF
                                               0797
                                                                       BLBS
                                                                                  QUAD_STATUS,30$
                                                                                                                  BR if all went OK
                             035B'CF
                                               0790
                                                                                  QUAD_STATUS, R2
                                                                       MOVZWL
                                                                                                                   Set up arglist so we can appease...
                                          30
                                 0405
                                               07A1
                                                                                                                   ... LIBSSIGNAL's use of $PUTMSG
                                                                       BSBW
                                                                                   AO_CHECK
                                                       1255
                                    52
                                          DD
13
                                                                                  R2
20$
                                                                                                                   Save flags and FAO count for $PUTMSG
                                               07A4
                                                                       PUSHL
                                    ÕŽ
                                                       1256
1257
                                               07A6
                                                                       BEQL
                                                                                                                   BR if there are no FAO args
                                    01
                                          DD
                                               07A8
                                                                        PUSHL
                                                                                  #1
                                                                                                                 ; There are args - save dummy for count
                                                       1258 20$:
                                               07AA
                                                       1259
                                               07AA
                                                                        ADDL3
                                                                                  #4,(SP)+,R2
                                                                                                                  Pop bogus arg and get arg count
                             035B1CF
                                          ŠĊ.
                                                       1260
                                               07AE
                                                                        MOVZWL
                                                                                 QUAD_STATUS,-(SP)
                                                                                                                  Save the error status
                                                       1261
                             049B'CF
                                          DF
                                               07B3
                                                                       PUSHAL
                                                                                 MBXW_QIO_FAIL
                                                                                                                 : Explain what went wrong
                                                      1262
                                    01
                                          DD
                                               07B7
                                                                       PUSHL
                        00741132 8F
                                          DD
                                               07B9
                                                                                  #UETP$_TEXT!STS$K_ERROR
                                                                       PUSHL
                                    52
                                               07BF
                                                       1264
                                          DD
                                                                       PUSHL
                                                                                                                ; Arg count for ERROR_EXIT
                                 0602
                                          31
                                               0701
                                                       1265
                                                                       BRW
                                                                                  ERROR_EXIT
                                               07C4
                                                       1266 30$:
                                          28
30
28
34
                             02A5'CF
02A5'CF
          02AD CF
                                               0704
                                                       1267
                                                                                 TEST_DSC,(R9),TEST_IMAGE; Set up image filespec to test device TEST_DSC,LOGNAM_DSC ; SYS$OUTPUT for that image...
                      69
                                                                       MOVC3
                02BE 'CF
                                               07CC
07D3
                                                       1268
                                                                       MOVZWL
                                                                                 TEST_DSC, TEST_IMAGE, LOGNAM : ...will be the image name...
                02AD 'CF
                             02A5'CF
   02C6'CF
                                                                       MOVC3
          0206'CF
                      O2BE'CF
                                               07DD
                                                                                 #^A/T/,LOGNAM_DSC,LOGNAM
                                                                                                                    ; ...but have a file type...
                                                                       LOCC
                             01B3'CF
                                               07E5
                                          00
                                                                       MOVL
                                                                                 LOGEXT, (R1)
                                                                                                                     ...of of .LOG
                                               07EA
                                                                       $CREPRC_S IMAGE = TEST_DSC,-
                                                                                                                ; Create the subprocess to test device
                                                      1273
                                               07EA
                                                                                    PIDADR = PIDADR .-
                                               07EA
                                                                                    INPUT = TEST_NAME, -
                                               07EA
                                                                                    OUTPUT = LOGNAM_DSC.-
                                               07EA
                                                                                    ERROR = SUBPROT ERROR.-
                                                                                    QUOTA = QUOTA_LIST,-
                                               07EA
                                               07EA
                                                                                    MBXUNT = MBX_UNIT
                                               081A
                                                                       SSETIME_S DAYTIM = THREEMIN.-
                                                                                                                ; Set up a timer to catch test hangs
                                                                                    ASTADR = KILL_SUBPROCESS .-
                                               081A
                                                       1280
                                               081A
                                                                                    REGIDT = PIDADR
                                               082F
                                                                       $QIOW_S CHAN = MBXCHN,-
                                                                                                                ; Set up read for termination mailbox
                                                                                 EFN = #SS SYNCH EFN.-

FUNC = #IOS READVBLK.-

IOSB = QUAD STATUS.-
                                               082F
                                               082F
                                                       1285
                                               082F
                                                                                    P1 = MBX BUF, -
P2 = #MBX_SIZE
                                               082F
                                               082F
                                                       1287
                                                                       SCANTIM_S REGIDT = PIDADR
CLRL PIDADR
                                               0854
                                                       1288
                                                                                                                 ; QIOW finished, we're no longer hung
                         02BA 'CF
035B 'CF
02D4 8F
                                          D4
E8
30
                                                       1289
1290
                                               0861
                                                                                                                  Indicate to us that proc is finished
                                                                                                                BR if all went OK
                                                                       BLBS QUAD_STATUS.50$ MOVZWL #SS$_OPINCOMPL,-
                                               0865
                                               086A
                                                       1291
                                                                                                                 ; Assume for now that we $CANCELled...
                             01A9'CF
                                               086E
                                                       1292
                                                                                  MBX_BUF+ACC$L_FINALSTS
                                                                                                              ; ... the QIOW
```

```
#SSS_CANCEL,QUAD_STATUS ; But did we really?
035B'CF
            0830 8F
                                                                                               BR if so, we can recover We get SS$_ABORT if I/O in progress BR if so, we can recover
                         13
                             0878
                                                     BEQL
                                     1295
      035B'CF
                             087A
                        B1
                                                      CMPW
                                                               #SS$_ABORT,QUAD_STATUS
                         13
30
30
                             087F
                                                     BEQL
            035B1CF
      52
                             0881
                                                     MOVŽWL
                                                               QUAD STATUS_R2
                                                                                               Set up arglist so we can appease...
...LIB$SIGNAL's use of $PUIMSG
                                                               FÃO_CHECK
               03E0
52
02
                             0886
                                                     BSBW
                        DD
13
                             0889
                                                     PUSHL
                                                                                                Save flags and FAO count for $PUTMSG
                             088B
                                     1300
                                                               40$
                                                     BEQL
                                                                                               BR if there are no fAO args
                  01
                        DD
                             0880
                                     1301
                                                     PUSHL
                                                               #1
                                                                                             : There are args - save dummy for count
                                     1302 40$:
1303
                             088F
            8E 04
035B'CF
                        Ç1
3C
                             088F
                                                     ADDL3
                                                               #4,(SP)+,R2
                                                                                             ; Pop bogus arg and get arg count
                                                               QUÁD STATUS, 'SP)
                             0893
                                     1304
                                                     MOVZWL
                                                                                             ; Save the error status
            04D1'CF
                        DF
                             0898
                                     1305
                                                     PUSHAL
                                                               CREPRO_CIO_FAIL
                                                                                             : Explain what went wrong
                        DD
                             089C
                                     1306
                                                     PUSHL
      00741132 8F
52
                        DD
                             089E
                                     1307
                                                     PUSHL
                                                               #UETP$_ EXT!STS$K_ERROR
                        DD
                             08A4
                                     1308
                                                     PUSHL
                                                                                             : Arg count for ERROR_EXIT
               05ED
                        31
                             08A6
                                     1309
                                                     BRW
                                                               ERROR_EXIT
                                     1310 505:
                             08A9
            01A9'CF
                             08A9
                                     1311
                                                     MOVL
                                                               MBX_BUF+ACC$L_FINALSTS,R2; Save termination status
                        12
                  08
2C
                                     1312
                             08AE
                                                     BNEQ
                                                               60$
                                                                                                  BR if we got a real status
            52
                        DŌ
                             0880
                                                               #SS$_ABORT,R2
                                                                                                ; No status, must have been...
; ...$DELPRC, so give a dummy status
                                                     MOVL
                                     1314
                             0883
      01A9'CF
                  52
                        D0
                             0883
                                     1315
                                                               R2, MBX_BUF+ACC$L_FINALSTS; Save status here, too
                                                     MOVL
                                     1316 60$:
                             8880
                        E8
                                     1317
1318
              6F 52
                             0888
                                                     BLBS
                                                                                              ; BR if process completed OK
                                                              CTRSTR = SUBPROCESS_FAIL,-; Give some indication now...

OUTLEN = BUFFER_PTR,-

OUTBUF = FAO_BUF,-

P1 = #TEST_DSC,-

; ...die suddenly...
                             088B
                                                     $FAO_S
                             088B
                                     1319
                                                                                                 ; ...if the subprocess failed...
                             0888
                                                                                                 ; ...so that we don't just ...
                             8880
                                                                    P2 = #DEVDSC
                                     1322
1323
1324
1325
                             08BB
                                                                                                 ; ...if there's some other problem
                0380
                             08DA
                                                     BSBW
                                                               FAO_CHECK
                                                                                             ; See if error takes any FAO args
                  52
02
                        DD
13
                             0800
                                                               R2
70$
                                                     PUSHL
                                                                                               Save flags/FAO count for LIB$51GNAL
                             08DF
                                                     BEQL
                                                                                               BR if there are no FAO args
                                     1326
1327 70$:
                  ŎĪ
                             08E1
                        DD
                                                     PUSHL
                                                               #1
                                                                                             ; There are args - save dummy for count
                             08E3
                                     1328
1329
                                                               M4,(SP)+,R2
MBX_BUF+ACC$L_FINALSTS
WSTS$M_INHIB_MSG,(SP)
BUFFER_PTR
                             08E3
      52
                        C1
                                                     ADDL3
                                                                                             ; Pop bogus arg and get arg count
            01A9'CF
                        DD
                             08E7
                                                     PUSHL
      10000000 8F
                        CA
                             08EB
                                     1330
                                                     BICL
                                                                                            ; Allow message to be printed, always!
            003B'CF
                        DF
                             08F2
                                     1331
                                                     PushAL
       000F0001 8F
                             08F6
                        DD
                                                     PUSHL
                                                               #^XF0001
       00741132 8F
0E61'CF 52
                                                               #UÊTP$ TEXT!STS$K_ERROR
R2,ERROR_MSG
                        DD
                             08FC
                                     1333
                                                     PUSHL
      0E61 'CF
                             0902
                                                                                               Note that we don't exit on this error Throw away 'SYS$INPUT' message,...
                                                     CALLS
                                                              CHAN = MBX1_CHAN,- : Throw FUNC = #10$_READVBLK!IO$M_NOW,- P1 = aDEVD$C+4,- : ...it
                             0907
                                     1335
                                                     $QIO_S
                                     1336
1337
                             0907
                             0907
                                                                                             ; ... it can screw up. .
                                     1338
                             0907
                                                                  P2 = DEVDSC
                                                                                             ; ... the next subprocess we create
                                     1339 80$:
                              392A
                             092A
                        05
                                     1340
                                                     RSB
```

```
.SBTTL BUILD_INIDEV Routines - COPY_LOG_FILE
                            092B
                                         Copy the log file of the process which just finished to our own log file. If we are in "long report" mode, also copy the part of the log file between the begining and ending "sentinels" (inclusive) to SYS$OUTPUT. R10 and R11; are in use from BUILD_INIDEV.
                             092B
                                   1345
                                    1346
                             092B
                             092B
                                   1349 COPY_LOG_FILE:
                            092B
            02BE 'CF
0704'CF
                        90
                            092B
                                   1350
                                                   MOVB
                                                             LOGNAM_DSC,-
                                                                                          ; Set the file name size
                                                             TMPLOG_FAB+FAB$B_FNS
LOGNAM,TMPLOG_FAB+FAB$L_FNA; Set the file name address
BUFFER,LOG_RAB+RAB$L_RBF; Set the buffer write address
FAB = TMPLOG_FAB; Open the temp log file
                            092F
                                    1351
            02C6'CF
0043'CF
                            0932
                                   1352
1353
O6FC'CF
                                                   MOVAL
06B4'CF
                        DE
                            0939
                                                   MOVAL
                            0940
                                    1354
                                                   SOPEN
                                                                                            Open the temp log file
           58 50
031E'CF
                                    1355
                        E8
                            094B
                                                             RO,20$
                                                   BLBS
                                                                                            BR if we can read it
                            094E
0953
                                                             FNF_MSG,R1
                        DE
                                    1356
                                                   MOVAL
                                                                                            Assume the error was a missing log
                                                             #RMS$_FNF ,RO
       00000000 8F
                                                                                            Is the log file missing?
                                    1357
                                                   CMPL
                        13
                            095A
                                    1358
                                                   BEQL
                                                             10$
                                                                                            BR if so - a special case
            035D'CF
                            095C
                                    1359
                                                                                            Assume now that the log was locked
                        DE
                                                   MOVAL
                                                             FLK MSG,R1
       00000000 BF
                                                   CMPL
                                                             WRMSS_FLK,RO
                        D1
                            0961
                                    1360
                                                                                            Did the process not terminate?
                            0968
                        13
                  09
                                    1361
                                                   BEQL
                                                             10$
                                                                                            BR if so - a special case
                            096A
            06D0'CF
                                   1362
1363
                                                            TMPLOG_FAB
                        DF
                                                   PUSHAL
                                                                                            There's some other error, so...
      ODAD 'CF
                            096E
0973
                 01
                        FB
                                                   CALLS
                                                             #1,RMS_ERROR
                                                                                           ...exit with a useful message
                                   1364 10s:
                             0973
                                   1365
                                                   $FAO_S
                                                            CTRSTR = (R1), -
                                                                                            Recover from this error,...
                             0973
                                   1366
                                                             OUTLEN = BUFFER PTR.-
                                                                                            ...because it's probably...
                            0973
                                   1367
                                                             OUTBUF = FAO BUF .-
                                                                                            ...a fault somewhere else,...
                            0973
                                   1368
                                                                  P1 = #LOGNAM_DSC,-
                                                                                           ...but complain
                            0973
                                   1369
                                                                  P2 = #DEVDSC
            003B'CF
                                                   PUSHAL
                            0990
                                   1370
                                                            BUFFER PTR
                                                                                          ; Set up to give the message
       000F0001 8F
                        DD
                            0994
                                    1371
                                                   PUSHL
                                                             #^XF0001
       00741132 8F
                            099A
                        DD
                                   1372
                                                   PUSHL
                                                             #UETP$ TEXT!STS$K ERROR
                                   1373
      0E61'CF
                 03
                        FB
                            09A0
                                                   CALLS
                                                             #3,ERROR_MSG
                        05
                            09A5
                                   1374
                                                   RSB
                                   1375 20$:
                            09A6
                                                   $CONNECT RAB = TMPLOG_RAB,-
                            09A6
                                   1376
                                                                                          ; Connect the temp log file
                                   1377
                            09A6
                                                              ERR = RMS_ERROR
  25 0021'CF 00
                                                             #SHRT_RPRTV,FLAG,30$
                            09B5
                                   1378
                                                                                          ; Skip announcement in short report
01A1'DF
           019D'CF
                                                             DEVDSC, aDEVDSC+4,-
                        28
                            09BB
                                   1379
                                                   MOVE3
                                                                                          ; form message telling device to test...
                            0902
            04B9'CF
                                    1380
                                                             TESTING MSG TEXT
                                                             #TESTING_MSG_LENGTH,-
                  08
                        A1
                                   1381
                                                   ADDW3
                                                                                          ; ...and its length
                                   1382
1383
                                                             DEVDSC, TESTING MSG
04A9'CF
            019D'CF
                            0907
                            09CD
                                                   $PUTMSG_S MSGVEC = LOG_BEGIN,-
                                                                                         ; Give msg saying what we're about to do
                            09CD
                                   1384
                                                               ACTRIN = ACTRIN
                            09E0
                                   1385 30$:
               008B
                            09E0
                                   1386
                                                   BSBW
                                                             COPY_RECORD
                                                                                          ; Copy from temp log to our log file
                        Ĕ9
39
              69 50
                                   1387
                                                             RO,70$
                            09E3
                                                   BLBC
                                                                                            BR on any error
            0304 'CF
030C'CF
                            09E6
                                                            START_DESC,START_DESC+8,-; Did we'find beginning sentinel?
                                                   MATCHC
                            09ED
                                                             TEMP_BUFF_DESC, TEMP_BUFF_STR
0397'CF
            038F 'CF
                            09F3
                                    1390
                                                   BNEQ
                                                             30$
                                                                                          ; Loop if not
                        ΕŌ
  11 0021'CF
                  00
                            09F5
                                   1391
                                                             #SHRT_RPRTV,FLAG,40$
                                                   BBS
                                                                                            Sentinel to only log if short report
                                   1392
1393 40$:
                            09FB
                                                   $PUTMSG_S MSGVEC = LOG_RCD
                                                                                          : Copy sentinel line to SYS$OUTPUT
                             0A0C
           3E 50
0311 CF
                            0A0C
                                   1394
                                                   BSBB
                                                             COPY_RECORD
                                                                                          ; Copy from temp log to our log file
                        ξ9
39
                            0A0E
                                    1395
                                                             RO,70$
                                                   BLBC
                                                                                            BR on any error
                                                            STOP_DESC,STOP_DESC+8,-; Did we find ending sentinel? 

TEMP_BUff_DESC,TEMP_BUff_STR
0319'CF
                            0A11
                                    1396
                                                   MATCHC
0397'CF
            038f 'CF
                             0A18
                                    1397
                  13
                        13
                            OA1E
                                    1398
                                                   BEQL
                                                                                          ; Exit loop if we did
```

	VAX/ BUIL	VMS UE	TP SYSTER	1 CONFIGURATI nes - COPY_LO	L 8 ON SIZER 16-SEP-1984 OG_FILE 5-SEP-1984	00:24:38 VAX/VMS Macro V04-00 Page 32 04:35:35 [UETPSY.SRC]UETINIT01.MAR;1 (16)
D9	11	0A20 0A31 0A33	1399 1400 1401 50	BRB	S_S_MSGVEC = LOG_RCD 40\$	<pre>; Copy a line to SYS\$OUTPUT ; Loop for another temp log record</pre>
11 0021'CF 00	EO	0A33 0A39 0A4A	1400 1401 501 1402 1403 1404 601	BBS \$putms@	#SHRT_RPRTV,FLAG,60\$ G_S_MSGVEC = LOG_RCD	<pre>; Sentinel to only log if short report ; Copy sentinel line to SYS\$OUTPUT</pre>
FB 50	10 E8	0A4A 0A4C 0A4F	1405 1406 1407 70	BSBB BLBS	COPY_RECORD RO,60\$	<pre>; Copy from temp log to our log file ; Loop while there are more records</pre>
		0A4F 0A4F	1408	\$CLOSE	FAB = TMPLOG_FAB,- ERR = RMS_ERROR	; Close the temp log file
		OASE OASE	1410	S ERASE	FAB = TMPCOG FAB, - ERR = RMS_ERROR	; Delete the temp log file
	05	0A6D	1412	RSB		; Exit copy loop

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						0A6E 0A6E 0A6E 0A6E 0A6E 0A6E	1417	; Massa ; finis ; margi ; for a	ned. ma n, and f beginni	ssaging includes reading	ile of a device test process that's just the record, indenting it from the left of the record so that it may be checked
			1 2	50	C Q	0A6E 0A79	1423 1423 1423 1425 1425	COPY_RE	SGET	RAB = TMPLOG_RAB	; Read a temp log record
	50	000	00000	'8F	E8 D1 13	0A7¢ 0A83	1423		BLBS CMPL	#RMS\$_EOF,RO	; BR if we have no error ; Is it EOF, i.e., reasonable error?
			0720	09 1 CF	DF	0A85	1425		BEQL Pushal	10\$ TMPLOG_RAB	BR if so : We have some unknown error
		ODAD	'CF	01	DF FB O5	0A89 0A8E	1467	103:	CALLS RSB		so let RMS error handler eat it
		51	0748	'CF	D0 30	0A8F 0A8F 0A94	1428 1429 1430	20\$:	MOVL	TMPLOG_RAB+RAB\$L_RBF,R1	; R1 and R0 are a string desc
		50	0742 7E	* CF 50	3C B0	0A94 0A99	1430 1431		MOVŽWL MOVW	TMPLOG_RAB+RAB\$W_RSZ,RO	:for the remainder of the record ; Counts chars as indentation is done
		4.1	50	1E	11	0A9C	1432	700	BRB	RO, -(SP) 50\$	BR inside loop - indent string's start; Is there a <ret> in rest of string?</ret>
		61	5 0	0D 35	3A 13	0A9E	1433 1434	30\$:	LOCC Begl	#13,R0,(R1) 60\$; Is there a <kei> in rest of string? ; Exit loop if not - no more indent</kei>
				50 51	D7 D6	0AA4 0AA6	1435 1436		DECL INCL	RO R1	; Found one. LOCC has us pointing at it
			61	0 A	91 12	8AAQ	1437		CMPB	#10,(R1)	; Point past the <ret> ; Is there a <linefeed>?</linefeed></ret>
				04 50	12 07	OAAB OAAD	1438 1439		BNEQ Decl	40 \$ RO	; BR if we need not skip <linefeed> ; Must pass over <lf></lf></linefeed>
			61	50 51	D6 91	OAAF	1440		INCL	R1	:since they're new line to printers
			01	06	12	0AB1 0AB4	1441	40\$:	CMPB BNEQ	50\$: Is there a <tab> at start of line? ; BR if not - we can start indenting</tab>
				09 06 50 51	D7	0AB6 0AB8	1443		DECL INCL	RO R1	; Must pass over the <tab></tab>
				F S	D6	QABA	1445		BRB	40\$; More of passing over the <tab> ; Inner loop to find multiple <tab>s</tab></tab>
				F 5 50 19	D5 13	OABC OABE	1446	50\$:	TSTL BEQL	RO 60\$; If we're at the end of the string;we can exit the outer loop
				ÒŚ	BB	0AC0	1448		PUSHR	#^M <ro,r1></ro,r1>	; Save desc to rest of string
04 BE 04	04 20	A1 00	61 8F	03 50 00 03	88 28 20	0AC2 0AC7	1449 1450		MOVC3 MOVC5	RO,(R1),INDENT(R1)	; Indent the rest of the string SP) ; Fill indented spaces with blanks
04 02 04		00		03	BĂ	OACF	1451		POPR	#^M <ro,r1></ro,r1>	: Restore desc to rest of string
			51 6E	04 04	C O A O	0AD1 0AD4	1452 1453		ADDWS	#INDENT,R1 #INDENT,(SP)	; Point beyond the spaces just inserted
			OL.	Č5	îĭ	OAD7	1454		BRB	30 \$	Count total length incl. indentation Loop to see if we need indent again
		06AE	, (E	6E	во	0AD9 0AD9	1455 1456	60\$:	MOVI	(CD) LOG DARADARSU DC7	. Set les ses size foon indepted ses
		VUAE	Ç1	UL	bv	OADE OADE	1457 1458		MOVW Sput		; Set log rec size from indented rec ; Copy the record
		003B	'CF	8E	B 0	OAED	1459		MOVW	(SP)+,BUFFER_PTR	Set size of indented record
			0038 038f	'CF	7F 7F	0AF 2 0AF 6	1460 1461		PUSHAQ PUSHAQ	TEMP BOFF DESC	;so we can make it
	000	00000		02 01	FB 9A	OAFA	1462		CALLS	#2,G*STR\$UPCASE	:uniform case for sentinel checking
			JU	UI	05	0B01 0B04	1463 1464		MOVZBL RSB	#SS\$_NORMAL,RO	

```
.SBTTL BUILD_INIDEV Routines - FINISH_CONTROLLER
                                     0B05
                                            1467
                                                     We now have to check up on the subprocess we created to see what it really did to UETINIDEV.DAT. If the process failed or found no testable units, the DDB and UCB lines will be marked untestable. If it found testable units, write a line to UETCONTOO.DAT so the device will be tested in the Device Test phase. Remove the end-of-file record from UETINIDEV because there are probably more devices to check. We'll rewrite the record if we really have
                                     0B05
                                            1468
                                     0805
                                             1469
                                     0805
                                             1470
                                     0B05
                                             1471
                                            1472
                                     0B05
                                     0B05
                                                      finished testing. For convenient access, Ró will point to INI RAB and R7 will point to CON_RAB. R10 and R11 are in use from BUILD_INIDEV.
                                             1474
                                     0B05
                                             1475
                                     0805
                                            1476
                                     0B05
                                            1477 FINISH_CONTROLLER:
                                    0805
                                    0805
                                            1478
          56
57
                                                               MOVAL
                                                                         INI_RAB,R6
                                                                                                            Set up...
                 05F8'CF
                               ĎĒ
                                                                         CON RAB,R7
#RAB$C_RFA,RAB$B_RAC(R6); Set RFA mode
                                    080A
                                            1479
                                                               MOVAL
                                                                                                            ...convenient RAB pointers
                               90
                                    080F
                                             1480
                 A6
                                                               MOVB
                               28
10 A6
          0764
                        06
                                    0813
                                             1481
                                                               MOVC3
                                                                         #6,DDB_RFA,RAB$W_RFA(R6); Set RFA to point to the DDB line
                                            1482
1483
                                    0B1A
                                                                         RAB = (R6), -
                                                              $GET
                                                                                                          ; Go back to the DDB record
                                                                         ERR = RMS_ERROR
                                    0B1A
                    4E 8F
                                    0B27
       0047'CF
                                             1484
                                                                         #^A/N/,BUFFER+4
                                                                                                          ; Any testable devices?
                               13
                                    0B2D
                                             1485
                                                               BEQL
                                                                         10$
                                                                                                            BR if not
             2B 01A9'CF
                                    OB2F
                                                                         MBX_BUF+ACC$L_FINALSTS,30$; All was OK if success status
                                             1486
                                                               BLBS
                                    0B34
                                             1487 105:
                               90
                                    0B34
                        00
                                             1488
                                                               MOVB
             1E A6
                                                                         #RAB$C_SEQ,RAB$B_RAC(R6); Reset UETINIDEV to sequential access
                                     0B38
                                             1489 20$:
      0047'CF
                    4E 8F
                               90
                                    0B38
                                             1490
                                                               MOVB
                                                                         #^A/N/,BUFFER+4
                                                                                                          ; Set DDB or UCB not testable
                                             1491
                                    OB3E
                                                              SUPDATE RAB = (R6)
                                                                                                            Update each record
                                             1492
                                     0B47
                                                              $GET
                                                                         RAB = (R6), -
                                                                                                          ; Get a UCB record
                                     0B47
                                             1493
                                                                         ERR = RMS ERROR
                               29
12
11
             10 A6
                                    0B54
076A'CF
                        06
                                            1494
                                                              CMPC3
                                                                         #6,RAB$W_RFA(R6),END_RFA ; Are all records updated?
                        DB 58
                                    0B5B
                                             1495
                                                              BNEQ
                                                                                                          ; Loop if not
                                    085D
                                             1496
                                                              BRB
                                                                                                          ; Skip success stuff if so
                                    0B5F
                                             1497
                                                   305:
                                    0B5F
                                            1498
                                                                         CTRSTR = CONT_STR,-
                                                              $FAO_S
                                                                                                          : Make the UETCONTOO record
                                            1499
                                                                         OUTBUF = FAO ALT.-
                                    0B5F
                                    OB5F
                                            1500
                                                                         OUTLEN = ALTBUF_PTR,-
                                                                              P1 = WTEST_BSC,-
                                    0B5F
                                            1501
                                    085F
                                             1502
                                                                               P2 = #DEVD5C
                 0145'CF
                                            1503
                                                                         ALTBUF_PTR,RAB$W_RSZ(R7); Set the record size ALTBUF,RAB$L_RBF(R7); Set the record address
      22 A7
28 A7
                               B0
                                    087E
                                                              WVOM
                 014D'CF
                               DE
                                    0884
                                             1504
                                                              MOVAL
                                                                                                          : Set the record address
                                    0B8A
                                             1505
                                                                         RAB = (R7), -
                                                              $PUT
                                                                                                          ; Write the record
                                                                         ERR = RMS_ERROR
                                             1506
                                    OB8A
                 0373'CF
                               96
90
                                    0897
                                             1507
                                                                         TST CNT
                                                              INCL
                                                                                                          : One more device test to run
                                                                         #RABSC_RFA, RABSB_RAC(R6); Set RFA mode in UETINIDEV.DAT #6, END RFA, RABSW_RFA(R6); Point to the END line in UETINIDEV
                                    089B
                                             1508
                        02
                                                              MOVB
                 A6
                                            1509
1510
10 A6
                               28
          076A'CF
                        06
                                    089F
                                                              MOVC3
                                                                         RAB = (R6),-
ERR = RMS_ERROR
                                    OBA6
                                                                                                          ; Get the END line as current
                                                              $FIND
                                    OBA6
                                             1511
                                            1512
1513 40$:
1514
1515
                        00
                               90
             1E A6
                                    0883
                                                              MOVB
                                                                         #RAB$C_SEQ,RAB$B_RAC(R6); Reset UETINIDEV to sequential access
                                    0887
                                    0887
                                                              STRUNCATE RAB = (R6),-
                                                                                                          ; Eat the END OF UETINDEV.DAT line
                                    08B7
                                                                            ERR = RMS_{ERROR}
                                    OBC4
                                             1516
                                                              RSB
```

UET VO4

OFFC 04 AC 57 \$DELPRC_S PIDADR = 04(AP) : Ensure that the subprocess \$FAO_S CTRSTR = PROCESS_STOP_MSG,- ; Indicate what happened OUTBUF = FAO_BUF,-1554 OBCC Ensure that the subprocess dies **0BD8** 1555 1556 **0BD8** 1557 0BD8 OUTLÊN = BUFFER_PTR,-**OBD8** = #TEST_DSC,-**OBD8** 1559 = #DEVDSC,-**OBD8** 1560 = #0 OBF9 1561 PUSHAL BUFFER_PTR 003B'CF 000F0001 8F OBFD 1562 #^XF0001 DD PUSHL PUSHL WUETP\$_TEXT!STS\$K_ERROR 00741132 8F 0003 1563 DD #3.ERROR MSG 0E61'CF 03 0009 1564 FB CALLS 1565 1566 OCOE \$SETIMR_S DAYTIM = ONEMIN, -Another timer will catch cases... 000E ASTADR = PASS_OVER_SUBPROCESS,-000E 1567 REGIDT = PIDADR ; ...where \$DELPRC isn't enough 1568 10\$:

0023

1569

RET

```
VAX/VMS UETP SYSTEM CONFIGURATION SIZER 16-SEP-1984 00:24:38 VAX/VMS Macro V04-00 Pass Over a Subprocess If $DELPRC fails 5-SEP-1984 04:35:35 [UETPSY.SRC]UETINIT01.MAR;1
                                                .SBTTL Pass Over a Subprocess If $DELPRC fails
                               1572
1573
                                       FUNCTIONAL DESCRIPTION:
                               1574
                                               Image rundown has not yet terminated a process we believe to be hung
                               1575
                                               (KILL_SUBPROCESS). We can do no more, so prevent further waiting for
                               1576
1577
                                               the process' termination mailbox.
                               1578
1579
                                        CALLING SEQUENCE:
                                               Called at AST level
                              1580
1581
1582
1583
1584
1585
                                        INPUT PARAMETERS:
                                               04(AP) - PID of the subprocess we must terminate
                                        IMPLICIT INPUTS:
                                               DEVDSC has the name of the controller we wanted to test.
                               1586
1587
                                               TEST_DSC has the name of the image to test the controller.
                               1588
1589
1590
1591
1592
1593
                                        OUTPUT PARAMETERS:
                                               NONE
                                        IMPLICIT OUTPUTS:
                                               NONE
                               1594
                                        COMPLETION CODES:
                               1595
                                               Value from ERROR MSG.
                               1596
                               1597
                                        SIDE EFFECTS:
                               1598
                                               $910W is cancelled for termination mailbox.
                               1599
                                               Error message given.
                       0C24
0C24
0C24
0C26
0C26
                               1600
                               1601
                                     PASS_OVER_SUBPROCESS:
.WORD ^M<R2
                               1602
                                                         ^M<R2,R3,R4,R5,R6,R7,R8,R9,R10,R11> ; Entry mask
                OFFC
                              1603
                               1604
                                               $CANCEL_S CHAN = MBXCHN ; Stop waiting for termination mailbox
$FAO_S CTRSTR = PASS_OVER_MSG,- ; Indicate what happened
OUTBUF = FAO_BUF,-
                               1605
                               1606
                               1607
                                                         OUTLEN = BUFFER PTR.-
P1 = #TEST DSC.-
                               1608
                               1609
                                                                  = #DEVDSC .-
                               1610
                        0C32
                                                                  = #0
                               1611
                       0C53
                                                         BUFFER_PTR
                                               PUSHAL
                               1612
                       0057
                                                         #^XF0001
 000F0001 8F
                  DD
                               1613
                                               PUSHL
                                                         #UETPS_TEXT!STS$K_ERROR
#3,ERROR_MSG
 00741132 8F
                       OC5D
                  DD
                               1614
                                               PUSHL
0E61 'CF
                  FB
                       0063
                               1615
                                               CALLS
                   04
                       8600
                                               RET
```

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VAX/VMS UETP SYSTEM CONFIGURATION SIZER 16-SEP-1984 00:24:38 VAX/VMS Macro V04-00 F
System Service Exception Handler 5-SEP-1984 04:35:35 [UETPSY.SRC]UETINITO1.MAR;1
             1658
1659
                             .SBTTL System Service Exception Handler
             1660
                   : FUNCTIONAL DESCRIPTION:
             1661
                            This routine is executed if a system service or RMS error occurs or
      0C91
             1662
                            if a LIB$SIGNAL system service is used to output a message.
      0Č91
      0091
             1664
                     CALLING SEQUENCE:
      00091
00091
00091
00091
00091
00091
00091
             1665
                            Entered via an exception from the system
             1666
                     INPUT PARAMETERS:
             1667
             1668
                            ERROR_COUNT
                                             = previous cumulative error count
             1669
1670
                                                        2
                                AP --->
             1671
                                                 SIGNL ARY PNT
             1672
             1673
             1674
                                                 MECH ARY PNT
             1675
             1676
      0091
             1677
      0091
                                                 ESTABLISH FP
             1678
             1679
             1680
                                                     DEPTH
                                                                    Mechanism Array
             1681
                                                       R0
             1682
             1683
      0041
                                                       R1
             1684
             1685
             1687
                                                 CONDITION NAME
             1689
             1690
                                                 N-3 ADDITIONAL
                                                                        Signal Array
             1691
                                                 LONG WORD ARGS
                                                       PC
             1694
             1695
                                                       PSL
             1696
             1697
                     IMPLICIT INPUTS:
      0091
             1698
                            NONE
            1699
1700
1/01
1702
      0091
      0091
                     OUIPUT PARAMETERS:
      0091
                            NONE
      0091
             1703
      0C91
                     IMPLICIT OUTPUTS:
      0091
             1704
                            NONE
      0091
             1705
            1706
      0091
                     COMPLETION CODES:
      0091
            1707
                            SS$_NORMAL if it's a UETP condition or RMS error.
      0091
            1708
                            Error status from exception, otherwise.
      0091
            1709
      0091
            1710
                     SIDE EFFECTS:
      0091
             1711
                            May branch to ERROR_EXIT.
            1712
      0091
                            May print a message.
      0091
```

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VAX/VMS UETP SYSTEM CONFIGURATION SIŽER 16-SEP-1984 00:24:38 VAX/VMS Macro V04-00 System Service Exception Handler 5-SEP-1984 04:35:35 [UETPSY.SRC]UETINITO1.MAR;1

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				Syste	vms ue em Ser	TP SYS	STEM CONF Exception	IGURATIO Handler	N SIZER 16-SEP-1984 (5-SEP-1984 (00:24: 04:35:	:38 VAX/VMS Macro VO4-0 :35	00 Page 101.MAR;1	40 (22)
	007	1130 00 6E 58	01 8F 5A 03 03	DD DD FO DO 11	0D4C 0D4E 0D54 0D57 0D59	1772 1773 1774 1775 1776 1777		PUSHL PUSHL INSV MOVL BRB	VI VUETPS_TEXT R10, #STS\$V_SEVERITY, - VSTS\$S_SEVERITY, (SP) V3, R8 V0\$; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	a message describing. why the System Service dive the message the correct severity count the number of args	e failed code we pushed	
		58	5A 01	DD D0	0D5E 0D5E 0D60 0D63	1779 1780	60 \$:	PUSHL MOVL	R10 V1,R8	; S ; C	Save SS failure code Count the number of args	we pushed	
6E	57 7E ⁰⁴	66 5E A6 66	04 57 57 58 120	C5 C2 28 C1 31	0D63 0D67 0D6A 0D6F 0D73	1782 1783 1784 1785 1786		SUBL 2	R7.SP	6),R7; Convert longwords to bytes; Save the current signal array 6),(SP);on the stack 6),-(SP); Push the current arg count	nal arrav		

Ta

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VAX/VMS UETP SYSTEM CONFIGURATION SIZER 16-SEP-1984 00:24:38 VAX/VMS Macro V04-00 Page 41 SPUTMSG Action Routine 5-SEP-1984 04:35:35 [UETPSY.SRC]UETINIT01.MAR;1 (23)
```

```
0076
                                           .SBTTL $PUTMSG Action Routine
                       0D76
                             1789
                       0D76
                             1790
                                   : FUNCTIONAL DESCRIPTION:
                       0D76
                             1791
                                           This routine is called as the action routine from $PUIMSG to copy
                       0D76
                                           messages to our own log file as well as have them written to SYS$OUTPUT.
                             1793
                       0D76
                       0D76
                             1794
                                     CALLING SEQUENCE:
                       0D76
                             1795
                                           Called by $PUTMSG system service if present as the ACTRIN parameter.
                       0076
                             1796
                       0D76
                             1797
                                     INPUT PARAMETERS:
                       0D76
                             1798
                                           04(AP) - Descriptor for an ASCID string with the message
                       0D76
                             1799
                       0076
                                     IMPLICIT INPUTS:
                             1800
                             1801
                       0D76
                                           NONE
                       0D76
                             1802
                             1803
                                     OUTPUT PARAMETERS:
                       0D76
                       0D76
                             1804
                                           NONE
                       0D76
                             1805
                       0D76
                             1806
                                     IMPLICIT OUTPUTS:
                       0076
                             1807
                                           NONE
                       0D76
                             1808
                       0D76
                             1809
                                     COMPLETION CODES:
                       0D76
                             1810
                                           Always successful if it returns.
                       0D76
                             1811
                       0D76
                             1812
                                    SIDE EFFECTS:
                       0D76
                            1813
                                           Message copied to log file.
                       0D76 1814 :
                                           Program may exit, if RMS encounters an error.
                       0D76 1815 :
                       OD76 1816 :--
                       0D76
                             1817
                       0D76
                            1818 ACTRIN:
                 0004
                       0D76
                            1819
                                           . WORD
                                                    ^M<R2>
                             1820
                       0D78
                             1821
        OGAE'CF
                                                   LOG_RAB+RAB$W_RSZ,-(SP); Save vital info in case we're asynch LOG_RAB+RAB$L_RBF
   7E
                   B0
                                           MOVW
                       0D78
        06B4 'CF
                       0D7D
                             1822
                   DD
                                           PUSHL
     52
                             1823
          04 AC
                   DO
                                                    4(AP),R2
                       0D81
                                           MOVL
                                                                             ; Get the message descriptor address
          62
04 A2
   OGAE 'CF
                   3Č
                                           MOVZWL
                                                    (R2),LOG_RAB+RAB$W_RSZ ; Get the message size
                       0D85
                             1824
06B4'CF
                   D0
                       OD8A
                             1825
                                                    4(R2),LOG_RAB+RAB$[_RBF ; Set the message address
                                           MOVL
                             1826
                       0D90
                                           $PUT
                                                    RAB = LOG RAB, -
                             1827
                       0D90
                                                    ERR = RMSTERRÓR
                                                                             ; Write the log file
        50
             01
                   00
                       OD9F
                             1828
                                           MOVL
                                                    S^#SS$_NORMAL,RO
                                                                             ; Set the return status code
   0684 'CF
             8E
                   DO
                       ODAS
                             1829
                                           MOVL
                                                    (SP)+, EOG_RAB+RAB$L_RBF; Restore vital info
   OGAE 'CF
              8E
                   B0
                       ODA7
                             1830
                                           MOVW
                                                    (SP)+,LOG_RAB+RAB$W_RSZ
                   04
                       ODAC
                             1831
                                           RET
```

VO.

6D

57

0357'CF

57

0357'CF

58

5A

003B'CF

ODEC

0E06

DF

1888

1889

56

```
VAX/VMS UETP SYSTEM CONFIGURATION SIZER 16-SEP-1984 00:24:38 VAX/VMS Macro V04-00 RMS Error Handler 5-SEP-1984 04:35:35 [UETPSY.SRC]UETINITO1.MAR;1
                 ODAD
                                       .SBTTL RMS Error Handler
                 DAD
                 ODAD
                               FUNCTIONAL DESCRIPTION:
                        1836
                 ODAD
                                       This routine handles error returns from RMS calls.
                 ODAD
                 ODAD
                                CALLING SEQUENCE:
                 ODAD
                                       Called by RMS when a file processing error is found. May also be
                 ODAD
                        1840
                                       called inline to process an RMS error.
                 ODAD
                 ODAD
                                INPUT PARAMETERS:
                        1843
                 ODAD
                                       The FAB or RAB associated with the RMS call.
                 ODAD
                        1844
                 ODAD
                                IMPLICIT INPUTS:
                        1846
                 ODAD
                                       NONE
                        1847
                 ODAD
                                OUTPUT PARAMETERS:
                        1848
                 ODAD
                 ODAD
                        1849
                                       NONE
                        1850
                 ODAD
                        1851
                                IMPLICIT OUTPUTS:
                 ODAD
                       1852
                 ODAD
                                       Error message
                       1853
                 ODAD
                                COMPLETION CODES:
                 ODAD
                       1854
                       1855
                 ODAD
                                       NONE
                       1856
                 ODAD
                 ODAD
                       1857
                                SIDE EFFECTS:
                      1858
                 ODAD
                                       Program may exit, depending on severity of the error.
                 ODAD
                       1859
                       1860 :--
                 ODAD
                 ODAD
                       1861
                       1862
                             RMS_ERROR:
                 ODAD
         OFFC
                       1863
                                       . WORD
                ODAD
                                                ^M<R2,R3,R4,R5,R6,R7,R8,R9,R10,R11> : Entry mask
                       1864
                 ODAF
FEDE CF
                                       MOVAL
                                                SSERROR, (FP)
                                                                             ; Set up our exception handler ; See whether we're dealing with...
                        1865
                ODAF
  04 AC
            DO
                                                 4(AP),R6
                 ODB4
                                       MOVL
                        1866
      03
            91
66
                                       CMPB
                                                 #FAB$C_BID,FAB$B_BID(R6); ...a FAB or a RAB
                 ODB8
                        1867
            12
                ODBB
                       1868
                                       BNEQ
                                                 10$
                                                                               BR if it's a RAB
      16
03B9'CF
            DE
                ODBD
                       1869
                                       MOVAL
                                                FILE, R7
                                                                               FAB-specific code: text string...
            DŌ
                0002
58
      56
                        1870
                                       MOVL
                                                R6,R8
                                                                               ...address of FAB...
                                                FABSL_STV(R6)
FABSL_STS(R6)
FABSL_STS(R6),STATUS
  0C A6
                                                                               ...STV field for error...
            DD
                ODC5
                        1871
                                       PUSHL
  80
      A6
            DD
                80d0
                        1872
                                       PUSHL
                                                                               ...STS field for error...
                       1873
  08 A6
            DO
                 ODCB
                                       MOVL
                                                                               ...and save the error code
      15
            11
                 ODD1
                        1874
                                       BRB
                                                 RMS_COMMON
                                                                              FAB and RAB share other code
                 0DD3
                        1875 10$:
                                                RECORD,R7
RAB$L_FAB(R6),R8
RAB$L_STV(R6)
RAB$L_STS(R6)
RAB$L_STS(R6),STATUS
03C5'CF
3C A6
                 0003
                        1876
                                       MOVAL
                                                                               RAB-specific code: text string...
            DŌ
                 0DD8
                        1877
                                       MOVL
                                                                               ...address of associated FAB...
  OC A6
                                                                               ...STV field for error...
            DD
                 ODDC
                        1878
                                       PUSHL
  08 A6
                 ODDF
                        1879
            DD
                                       PUSHL
                                                                             ; ...STS field for error...
                 ODE 2
  08 A6
            DO
                        1880
                                       MOVL
                                                                             : ...and save the error code
                        1881 RMS_COMMON:
                 ODE8
                                                FAB$B_FNS(R8),R10 ; Get the file name size CTRSTR = RMS_ERR_STRING,- ; Common code, prepare error message... OUTLEN = BUFFER_PTR,-
  34 A8
            9A
                                       MOVZBL
                 ODE8
                        1882
                        1883
                 ODEC
                                       SFAO_S
                       1884
                 UDEC
                       1885
                                                 OUTBUF = FAO_BUF,-
                 ODEC
                                                        = R7 =
= R10,-
                       1886
                                                 P1
                 ODEC
                                                 P2
                        1887
                 ODEC
```

= FAB\$L_FNA(R8)

; ...and arguments for ERROR_EXIT...

PUSHAL BUFFER_PTR

```
VAX/VMS UETP SYSTEM CONFIGURATION SIZER 16-SEP-1984 00:24:38 VAX/VMS Macro V04-00 PRMS Error Handler 5-SEP-1984 04:35:35 [UETPSY.SRC]UETINIT01.MAR;1
                                     0E0A
0E0C
0E12
0E14
0E15
                                                                          PUSHL
PUSHL
EXTZV
                             DD
DD
EF
                                                 1890
1891
                                                                                          WUETPS_TEXT
WSTSSV_SEVERITY,-
WSTSSS_SEVERITY,-
STATUS_R9
R9,(SP)
W5
  00741130 BF
                   00
                                                 1892
1893
         0357'CF
6E 59
05
0075
59
                                                 1894
                                                                                                                                          ; ...get the severity code...
; ...and add it into the signal name
; Current arg count
                                     0E19
0E1C
0E1E
                                                                          BISB2
PUSHL
BRW
                             88
DD
31
                                                 1895
                                                1896
                                                 1897
                                                                                           ËRROR_EXIT
```

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```
VAX/VMS UETP SYSTEM CONFIGURATION SIZER 16-SEP-1984 00:24:38 VAX/VMS Macro V04-00 CTRL/C Handler 5-SEP-1984 04:35:35 [UETPSY...PC]UETINITO1.MAR;1
                            .SBTTL CTRL/C Handler
             1900
                   : FUNCTIONAL DESCRIPTION:
             1901
                            This routine handles CTRL/ AST's
                     CALLING SEQUENCE:
             1905
                            Called via AST
             1906
                     INPUT PARAMETERS:
             1908
                            NONE
             1909
             1910
                     IMPLICIT INPUTS:
             1911
                            NONE
             1912
             1913
                     OUTPUT PARAMETERS:
             1914
                            NONE
             1915
             1916
                     IMPLICIT OUTPUTS:
             1917
                            NONE
             1918
       0E21
             1919
                     COMPLETION CODES:
       0E21
             1920
                            NONE
       0E21
             1921
       0E21
                     SIDE EFFECTS:
             1923
       0E21
                            NONE
       0E21
             1925
       0E21
       0E21
             1927 CCASTHAND:
       0E21
OFFC
      0E21
             1928
                                     ^M<R2,R3,R4,R5,R6,R7,R8,P9,R10,R11> : Entry mask
                            .WORD
       0E23
      0E23
                            PUSHL
                                     PIDADR
                                                                  Clean up any subprocess...
  FB
      0E27
                            CALLS
                                     #1,KILL_SUBPROCESS
                                     CNTRLCMSG
  DF
      0E2C
                            PUSHAL
                                                                   Set message pointer
      0E30
  DD
                            PUSHL
                                                                   Set arg count
```

02BA'CF FD99 CF 0398'CF #UETP\$_TEXT!STS\$K_WARNING : Set signal name ; Indicate an abnormal termination 00741130 8F DD 0E32 PUSHL DD 0E38 PUSHL 000F 'CF DF 0E3A PUSHAL TEST_NAME 1937 DD 0E3E PUSHL 007410E0 8F #UETPS_ABENDD!STSSK_WARNING; ... #7,G^LIB\$SIGNAL ; Output DD 0E40 PUSHL 00000000 GF 1939 07 FB 0E46 CALLS ; Output the message #<\$TS\$M_INHIB_MSG!-DŌ OE4D 1940 MOVL ; Set the exit status OE4E 1941 SS\$ CONTROLC-= 1942 STS\$K_SUCCESS+STS\$K_WARNING>,-STATUS 0357'CF 10000650 8F 0E4E 1944 SEXIT_S STATUS 0E 56 ; Terminate program cleanly

```
1946
                                                .SBTTL Error Message
                          0E61
                                 1948
                          0E61
                                      : FUNCTIONAL DESCRIPTION:
                          0Ē61
                                                Print an error message preceded by the UETP error box message.
                                 1950
                          0E61
                          0E61
                                         CALLING SEQUENCE:
                                 1952
1953
                          0E61
                                                form a LIB$SIGNAL set of message except for the error box message
                          0Ē61
                                                CALLS count-of-messages, ERROR_MSG
                                 1954
                          0E61
                                         INPUT PARAMETERS:
                          0E61
                                 1955
                          0E61
                                 1956
                                                List of LIB$SIGNAL arguments to which more may be added. There is no
                          0E61
                                 1957
                                                         limit on the number or type other than what LIB$SIGNAL imposes.
                          0E61
                                 1958
                          0E61
                                 1959
                                         IMPLICIT INPUTS:
                          0E61
                                 1960
                                                NONE
                          0E61
                                 1961
                                 1962
1963
                                         OUTPUT PARAMETERS:
                          0E61
                          0E61
                                               NONE
                          0E61
                                 1964
                          0E61
                                 1965
                                         IMPLICIT OUTPUTS:
                                1966
1967
                          0E61
                                                NONE
                          0E61
                                         COMPLETION CODES:
                          0E61
                                 1968
                          0E61
                                 1969
                                                Value from LIB$SIGNAL.
                                 1970
                          0E61
                          0E61
                                 1971
                                        SIDE EFFECTS:
                                 1972
                          0E61
                                                Message from LIB$SIGNAL.
                                1973 :--
                          0E61
                          0E61
                                 1974
                                1975 ERROR_MSG:
                         0E61
0E61
                   OFFC
                                 1976
                                                . WORD
                                                         ^M<R2,R3,R4,R5,R6,R7,R8,R9,R10,R11> : Entry mask
                                 1977
                          0E63
                     C5
C2
28
    50
                                 1978
                                                        #4,0(AP),R0
R0,SP
                          0E63
                                                MULL3
                                                                                    ; Figure bytes already used for msgs
               50
50
                                               SUBL 2
MOVC 3
          5É
                                 1979
                          0E67
                                                                                      Reserve stack space for them
      04
                                 1980
                                                         RO,4(AP),(SP)
                          0E6A
                                                                                      Copy start of LIB$SIGNAL args
                                                        ERROR_COUNT
ERROR_COUNT
TEST_NAME
#^X10002
          0353'CF
                     D6
                                 1981
                          0E6F
                                                INCL
                                                                                      Keep a count of recoverable errors
          03531CF
                          0E73
                     DD
                                 1982
                                               PUSHL
                                                                                    ; form the rest of LIB$SIGNAL args
          000F'CF
                     DF
                          0E77
                                 1983
                                               PUSHAL
     00010002
00748022
                          OE 7B
                     DD
                                               PUSHL
                                 1984
                                                        #UETPS ERBOXPROC!STS$K_ERROR
#4,0(AP),R0; COU
RO,G^LIB$SIGNAL
               8F
                                               PUSHL ADDL3
                     DD
                          0E81
                                 1985
                Õ4
                     CI
                          0E87
                                 1986
                                                                                    : Count total number of LIB$SIGNAL args
00000000 GF
                50
                     FB
                                1987
                          0E8B
                                                CALLS
                                                         #SS$_NORMAL,RO
          50
               01
                     DŌ
                          0E92
                                 1988
                                                MOVL
                     04
                          0E95
                                 1989
                                                RET
                                                                                    : Continue with recovery
```

```
.SBTTL Error Exit
                                      1992
1993
                                ŎĒ 96
                                0E96
                                            : FUNCTIONAL DESCRIPTION:
                                0E96
                                      1994
                                                     This routine prints an error message and exits.
                                0E96
                                      1995
                                      1996
1997
                                0E96
                                              CALLING SEQUENCE:
                                0E96
                                                     MOVx error status value, STATUS
                                      1998
                                0E96
                                                     PUSHx error specific information on the stack
                                0E96
                                      1999
                                                     PUSHL current argument count
                                0E96
                                      2000
                                                     BRW ERROR_EXIT
                                      2001
                                0E96
                                      2002
                                0E96
                                              INPUT PARAMETERS:
                                0E96
                                                     Arguments to LIB$SIGNAL, as above
                                      2004
                                0E96
                                0E96
                                              IMPLICIT INPUTS:
                                      2006
                                0E96
                                                     NONE
                                0E96
                                      2007
                                              OUTPUT PARAMETERS:
                                0E96
                                      2008
                                0E96
                                      2009
                                                     Message to SYS$OUTPUT and SYS$ERROR
                                0E96
                                      2010
                                              IMPLICIT OUTPUTS:
                                0E96
                                      2011
                                      2012
                                0E96
                                                     Program exit
                                0E96
                                      2014
                                0E 96
                                              COMPLETION CODES:
                                      2015
                                0E96
                                                     NONE
                                      2016 2017
                               0E96
                               0E96
                                              SIDE EFFECTS:
                               0E96
                                      2018
                                                     NONE
                               0E96
                                      2019
                                      5050 :--
                                0E96
                                      2021
2022
2023
2024
                               0E96
                               0E96
                                           ERROR_EXIT:
                               0E96
                               0E96
                                                     $SETAST_S ENBFLG = #0
                                                                                         ; ASTs can play havoc with messages ; BR if 'begin' msg already printed
                                      2025
2026
2027
      15 0021'CF
                     01
                               0E9F
                                                              WBEGIN_MSGV,FLAG,10$
                                                     BBS
               7E
000F 'CF
                                                                                           Set the time stamp flag
                               OEA5
                                                     CLRL
                                                              -(SP)
                               0EA7
                                                     PUSHAL TEST_NAME
                                                                                           Set the test name
                                      2028
                                                                                           Push the argument count
                           DD
                               0EAB
                                                     PUSHL
                                                              #2
                                      2029
                                                              #UETP$ BEGIND!STS$K_SUCCESS; Set the message code #4,G^LIB$SIGNAL; Print the startup message
           00741039 8F
                               0EAD
                                                     PUSHL
     00000000 GF
                                      2030
                     04
                               0EB3
                                                     CALLS
                                OEBA
                                      2031 105:
    0388'CF
                                                     ADDL3
               80
                               0EBA
                                      2032
                                                              (SP)+,#8,ARG_COUNT
                                                                                         ; Get total # args, pop partial count
               0353'CF
                                      2033
                                                              ERROR_COUNT
                           D6
                               0ECO
                                                     INCL
                                                                                           Keep running error count
                                      2034
                           DD
                               OEC4
                                                     PUSHL
                                                              #0
                                                                                           Push the time parameter
                                      2035
               000F 'CF
                           DF
                                                     PUSHAL
                                                             TEST NAME
                               0EC6
                                                                                           Push test name...
           000F0002 8F
                                      2036
                                                     PUSHL
                                                              #^XF0002
                           DD
                               OE CA
                                                                                           ...arg count...
           007410E2 8F
0353 CF
                                      2037
                           DD
                               OEDO
                                                     PUSHL
                                                              #UETP$_ABENDD!STS$K_ERROR
                                                                                           :...and signal name
                           DD
                               0ED6
                                      2038
                                                     PUSHL
                                                              ERROR COUNT
                                                                                           Finish off arg list...
                                      2039
                000F * CF
                           DF
                               OEDA
                                                             TEST NAME
                                                     PUSHAL
           00010002 8F
00748022 8F
                           DD
                                      2040
                                                              #^X10002
                               OEDE
                                                     PUSHL
                                                              #UÊTP$_ERBOXPROC!STS$K_ERROR; ...for error box message
                           DD
                                      2041
                               OEE4
                                                     PUSHL
                                      2042
00000000'GF
               038B'CF
                           FB
                               OEEA
                                                     CALLS
                                                              ARG_COUNT,G^LIB$SIGNAL ; Truly bitch
                                0EF3
                                      2044
                0357'CF
                           05
                               0EF3
                                                              STATUS
                                                     TSTL
                                                                                           Did we exit with an error code?
                                      2045
                           12
                     09
                               OEF7
                                                     BNEQ
                                                                                           BR if we did
           007410E2 8f
0357 CF
                                      2046
2047
                           DO
                               OEF9
                                                              #UETP$_ABENDD!STS$K_ERROR,- ; Supply a generic one otherwise
                                                     MOVL
```

UETINIT01 V04-000

VAX/VMS UETP SYSTEM CONFIGURATION SIZER 16-SEP-1984 00:24:38 VAX/VMS Macro V04-00 Page 47 S-SEP-1984 04:35:35 [UETPSY.SRC]UETINIT01.MAR;1 (27)

0357'CF 10000000 8F

BISL #STS\$M_INHIB_MSG,STATUS ; Don't print messages twice! \$EXIT_S STATUS ; Exit in error

UE V(

000F 'CF

00741081 8F

0000000'GF

OF 3B

OF 3F

ÖF41

OF 47

OF 4E

ÖF 59

OF 5A OF 5A

DF

DD

DD

FB

04

2089

2090

2091

2092

2093

2094

2095 2096

Push the test name

Push arg count

; Output the message

; That's all folks!

; Reset the process name

#UETP\$ ENDEDD!STS\$K_SUCCESS; Push signal name #4,G^LIB\$SIGNAL; Output the message

PUSHAL TEST_NAME

#2

\$SETPRN_S PRCNAM = ACNT_NAME

UETINITO1

PUSHL

PUSHL

CALLS

RET

.END

UETINITO1 Symbol table	VAX/VMS	UETP	SYSTEM	CONFIGURATION SIZER	16-SEP-1984 00:24:38 VAX/VMS 5-SEP-1984 04:35:35 [UETPSY	S Macro V04-00 V.SRCJUETINITO1.	Page MAR;1 (49 (28)
\$\$.TAB \$\$.TABEND \$\$.TMP \$\$.TMP1 \$\$.TMP2	= 000007 = 000000 = 000000 = 000000	64 R 00 02	03 03	DIOLM DO_SUMMARY DVI\$_DEVCLASS DVI\$_DEVNAM END_#SG	0000000F R 000004D9 R = 00000004 = 00000020 0000020C R	03 05 02		
\$\$.TMPX \$\$.TMPX1 \$\$T1 \$\$T2 ACC\$L_FINALSTS	= 000000 = 000000 = 000000 = 000000	27 R 00 00 06	04	DVISTDEVNAM END_MSGL END_RECORD END_RFA EGUX1 ERROR_COUNT	= 0000020C R 00000014 000002A0 R 0000076A R 0000004B R 00000353 R	05 03 02 03		
ACNT NAME ACTRIN ALTBUF ALTBUF_PIR APPEND UNITS	000000 000001 000001 000001	00 R 76 R 40 R 45 R	02 05 03 05 05 03	ERPORTEXIT ERRORTMSG EXIT_BESC	00000E96 R 00000E61 R 0000037B R 00000F16 R = 00000000	05 05 03 05		
ARG COUNT ASTEM BAD_PO_LIST BEGIN_MSGM BEGIN_MSGV	000003 0000004 = 0000000 = 0000000	05 R 58 R 02	02	FAB\$B_BID FAB\$B_FNS FAB\$C_BID FAB\$C_SEQ FAB\$C_VAR FAB\$L_ALQ FAB\$L_FNA FAB\$L_FOP FAB\$L_STS	= 00000034 = 00000050 = 00000000 = 00000002			
BIOLM BLANK_LINE BLANK_LINE_PTR BUFFER BUFFER_PTR BUILD_INIDEV	0000000 000001 0000000 000000 000000	AB R 8B R 43 R 3B R	03 02 03 03 05	1 4045 _314	= 00000010 = 0000002C = 00000004 = 00000000C			
CCASTRAND CHF\$L_SIGARGLST CHF\$L_SIG_ARG1 CHF\$L_SIG_ARGS CHF\$L_SIG_NAME CLSIODB_ARGLST	= 0000000 = 0000000 = 0000000 = 0000000	21 R 04 08 00	05	FAB\$V_CHAN_MODE FAB\$V_CR FAB\$V_FILE_MODE FAB\$V_GET FAB\$V_LNM_MODE FAB\$V_TPM	= 00000002 = 00000001 = 00000001 = 00000000 = 00000000			
CLSIODB_ARGLST CLSIODB_FAIL CLSPTR CNTRLCMSG COMMAND_ITMLST	000000 000004 000003 000000	44 R 18 R 41 R 98 R	02 03 03 02 02	FABSV-TRH FABSV-UFO FABSV-UPD FABSV-UPI FABSW-GBC	= 00000004 = 00000011 = 0000003 = 0000006 = 0000048			
CONTOO OVERHEAD CONT_DESC CONT_STR CON_FAB CON_RAB	0000011 0000020 0000011 0000057	50 R 50 R 87 R 48 R	02 02 02 03 03	FAO_AET FAO_BUF FAO_CHECK FILE FINISH_CONTROLLE	0000013D R 00000033 R 0000069 R 000003B9 R FR 00000B05 R	03 03 05 02 05		
COPY_LOG_FILE COPY_RECORD CREATE_SUBPROCESS CREPRC_QIO_FAIL CS1	000009 00000A 000007 000004 000001	6E R 59 R 01 R	00000000000000000000000000000000000000	FLAG FLK_MSG FNF_MSG FORMAT_ERR_MSG GETDVI_FAIL	0000021 R 000035D R 0000031E R 000002DE R 000003F4 R	03 05 05 02 03 02 02 02 02 03		
CS3 DC\$_TERM DDB_CTRSTR DDB_LOOP DDB_RECORD DDB_RFA	= 000001 0000001 000005 000003 000007	42 E9 R 33 R EA R	02 05 05 03 03 03	HEADER REC INADDRESS INDENT INI FAB INI RAB IO\$M_CTRLCAST	00000162 R 00000363 R = 00000004 00000464 R 00000514 R = 00000100	02 03 03 03		
DEV- DEVBUF DEVDSC DIBSK_LENGTH DIBSW_UNIT	000002 000002 000001 = 000000 = 000000	D7 R DF R 9D R 74	03 03 03	IOSM_NOW IOS_READVBLK IOS_SETMODE IOS_WRITEVBLK JPIS_ASTLM	= 00000040 = 00000031 = 00000023 = 00000409			
	30000	- -		v. • v				

VO4

UETINITO1	VAY/VMC HETD C	VCTEM CONE	D 10 IGURATION SIZER	16-SED-109/ 00.2/.79 VAY/VMS Massa VO/-00 Dags 50
Symbol table	VANZ VIIIS OF IT	OF STEM CONF.	IOURATION SIZER	16-SEP-1984 00:24:38 VAX/VMS Macro V04-00 Page 50 5-SEP-1984 04:35:35 [UETPSY.SRC]UETINIT01.MAR;1 (28)
JPIS_BIOLM JPIS_DIOLM JPIS_TQLM JPIS_UIC JPI_CIST KBNT_LENGTH KILL_SUBPROCESS	= 00000310 = 00000313 = 00000410 = 00000304 00000220 R = 00000040 00000BC5 R	02 05	QUOTA_LIST RAB\$B_RAC RAB\$C_BID RAB\$C_BLN RAB\$C_RFA RAB\$C_SEQ RAB\$L_CTX	0000004 R 03 = 0000001E = 00000044 = 00000002 = 00000000 = 00000018
KNOWN_BUT_NOT_TESTABLE LCLPTR LC_BITM LIB\$SIGNAL LOGEXT LOGNAM LOGNAM_DSC	000000BB R 00000491 R = 00000020 ********* 000001B3 R 000002C6 R 000002BE R	05 03 05 03 03 03 03	RABSC-BID RABSC-BID RABSC-BLN RABSC-SEQ RABSC-CTX RABSL-FAB RABSL-RAF RABSL-STS RABSL-STS RABSL-STV RABSW-RFA RABSW-RSZ RECORD	= 0000003C = 00000028 = 00000004 = 00000008 = 0000000C = 00000010 = 00000022
LOG_BEĞIN LOG_FAB LOG_NAME LOG_RAB LOG_RCD MAX_DEV_DESIG MAX_SUMM_LINE MAX_UNIT_DESIG	0000019B R 0000063C R 0000014D R 000006BC R 00000023 R = 0000000A = 00000050 = 00000005	02 03 02 03 03	RECORD REC SIZE REPORT NAME RMS\$_BLN RMS\$_BUSY RMS\$_CDA RMS\$_EOF RMS\$_FAB	000003C5 R 02 = 00000028 0000003D R 02 ******* X 02 ******* X 02 ****** X 02 ****** X 05
MBXT_CHAN MBXCRN MBXW_QIO_FAIL MBX_BUF MBX_SIZE MBX_UNIT MODE	00000015 R 0000001B R 0000049B R 000001A5 R = 00000100 000001D R 00000031 R	03 03 02 03	RMSS_FACILITY RMSS_FLK RMSS_FNF RMSS_RAB RMS_COMMON RMS_ERROR	= 00000001 ******
MPMPTR MPM_AND_DDB_BOTH MPM_CS MPM_LITERAL MPM_RECORD MSG_BLOCK MSG_PTR NONE	00000499 R 0000046C R 00000122 R 00000268 R 000003C5 R 00000377 R	03 02 03 05 02 05 03	SECSM_EXPREG SECSM_GBL SHR\$_ABENDD SHR\$_BEGIND	= 00020000 = 00000001 = 000010E0 = 00001038
NONE LEN NO RMS AST TABLE NRÄT_LENGTH NULL_RECORD ONEMIN OUTADDRESS OVERHEAD LENGTH	0000029E R = 00000004 00000074 R = 00000014 0000028F R 00000183 R 0000036B R = 00000003	02 02 05 02 03	SHRS-ENDEDD SHRS-TEXT SHRT-RPRTM SHRT-RPRTV SID RECORD SKIP-CLUS RECOR SKIP-RECORDS SKIP-RECORDS SSS-ABORT SSS-CONTROLC	= 00000651
PASS_OVER_MSG PASS_OVER_SUBPROCESS PATH_RECORD PHASE_NAME PIDADR POTENTIALLY_OK PQL\$_ASTLM PQL\$_BIOLM	000005C6 R 00000C24 R 0000028F R 0000013C R 000002BA R 000006AF R = 00000001 = 00000002	02 05 05 02 03 05	SSS NORMAL SSS OPINCOMPL SSS SSFAIL SSS WASSET SSERROR SS SYNCH EFN START DESC STATUS	= 00000001 = 00000204 = 0000045C = 00000009 00000091 R 05 = 00000003 00000304 R 02 00000357 03
POLS DIOLM POLS LISTEND POLS TOELM PROCESS STOP MSG QUAD STATUS	= 00000005 = 00000000 = 00000009 0000054B R 0000035B R	02 03	STOP_DESC STR\$OPCASE STS\$K_ERROR STS\$K_SUCCESS STS\$K_WARNING	00000311 R 02 ******* X 05 = 00000002 = 00000001 = 00000000

4E

```
VAX/VMS UETP SYSTEM CONFIGURATION SIZER 16-SEP-1984 00:24:38 VAX/VMS Macro V04-00 Page 51 5-SEP-1984 04:35:35 [UETPSY.SRC]UETINIT01.MAR;1 (28)
UETINITO1
Symbol table
                                                                                           TESTING_MSG
TESTING_MSG_LENGTH
TESTING_MSG_TEXT
TEST_COUNT
TEST_DSC
TEST_IMAGE
TEST_NAME
TEXT_BUFFER
STS$M_INHIB_MSG
STS$S_FAC_NO
STS$S_SEVERITY
STS$V_FAC_NO
STS$V_SEVERITY
SUBPROCESS_FAIL
                                                 = 10000000
                                                                                                                                               000004A9 R
                                                 = 00000000
                                                                                                                                            = 000000008
                                                 = 00000003
                                                                                                                                               000004B9 R
                                                 = 00000010
                                                                                                                                               000001CC R
000002A5 R
                                                                                                                                                                       02
03
03
                                                 = 00000000
                                                    0000050B R
                                                                            000002AD R
SUBPROC_ERROR
                                                    00000056 R
                                                                                                                                               0000000F R
                                                                                                                                                                       02
SUBPRUCERRUR
SUCEXIT
SUMM_HEADER
SUMM_OUTPUT
SUPDEV_CLUS_DENOSU
SUPDEV_DENOSU
SUPDEV_GBLSEC
SUPDEV_MATCH
                                                    00000671 R
                                                                                                                                            = 000000FA
                                                                                                                                                                       02
03
03
                                                    000002A2 R
                                                                                            THREEMIN
                                                                                                                                               0000017B R
                                                                                           TMPLOG_FAB
TMPLOG_RAB
                                                    0000063A R
                                                                                                                                               000006D0 R
                                                                                                                                               00000000 R
000000720 R
00000014 R
00000373 R
                                                    0000039B R
                                                    000004A1 R
                                                                                                                                                                       0332325
0000
0000
                                                                                            TQLM
                                                    00000020 R
00000479 R
                                                                                           TST_CNT
TST_CNT_STR
                                                                                                                                               000001DE R
00000019 R
SUP FAB
SYSSASSIGN
                                                    00000558 R
                                                                                           TTCHAN
                                                                                           UCB_CTRSTR
UCB_N
                                                                                                                                               000001FA R
SYS$CANCEL
                                                    ******
                                                                                                                                               000005B9 R
SYS$CANTIM
                                                                                           UCB_RECORD
                                                                                                                                               0000028F R
                                                                                                                                                                       05
                                                                                                                               0000028F

000005A3

00000000

= 00740000

*******

= 007410E0

= 0074832B

= 00741038

= 007480B1

= 00748020

= 00741080

= 00741080

= 00741098

= 00741130
SYS$CLOSE
                                                                    GX
                                                                                           UCB_T
                                                                                                                                             000005A3 R
                                                                                                                                                                       05
SYS$CMKRNL
                                                    ***** GX
                                                                                           UETINITO1
                                                                                                                                               00000000 RG
                                                                                                                                                                       05
                                                    00000061 R
SYS$COMMAND
                                                                                           UETP
SYS$CONNECT
                                                                                           UETP$CLSIODB
                                                                                           UETPSCLSIODB
UETPS_ABENDD
UETPS_BEGIND
UETPS_COPY_LOG
UETPS_DENOSU
UETPS_ENDEDD
UETPS_ERBOXPROC
UETPS_FACILITY
UETPS_OPENIN
UETPS_TEXT
UIC
                                                    ***** GX
SYSSCREATE
                                                    ***** GX
SYS$CRELOG
SYS$CREMBX
                                                                    GX
SYSSCREPRC
                                                                    GX
                                                    ***** GX
SYS$CRMPSC
SYS$DCLEXH
                                                                    GX
SYS$DELLOG
                                                                    GX
SYS$DELPRC
                                                                    GX
SYSSERASE
                                                                    GX
SYSSEXIT
                                                                                                                                           = 00741130
                                                                    GX
                                                                                           UIC
UID$K_DDB_RTYPE
UID$K_END_RTYPE
UID$K_MPM_RTYPE
UID$K_NULE_RTYPE
UID$K_UCB_RTYPE
UIDDDB$T_NAME
UIDFLAG$M_DDB
UIDFLAG$M_MPM
UIDFLAG$M_UCB
UIDGNRC$B_TYPE
UIDGNRC$B_TYPE
UIDGNRC$B_TYPE
UIDGNRC$W_SIZE
UIDMPM$W_NUMBER
UIDSID$T_NODENAME
UIDUCB$B_DEVTYPE
UIDUCB$B_DEVTYPE
UIDUCB$W_NUMBER
UNTESTABEE
SYS$FAO
                                                                                           UIC
                                                                                                                                               00000000 R
                                                                                                                                                                       03
SYS$FIND
                                                                    GX
                                                                                                                                            = 00000003
SYS$FLUSH
                                                                                                                                            = 00000006
                                                                    GX
                                                                                                                                           = 00000005
SYS SGET
                                                                    GX
SYSSGETCHN
                                                                                                                                           = 00000000
                                                                    GX
SYS$GETDVI
                                                                                                                                           = 00000004
                                                                    GX
SYSSGETJPI
                                                    *****
                                                                                                                                           = 0000000B
                                                                    GX
SYS$GETMSG
                                                    ******
                                                                                                                                           = 00000004
                                                                    GX
                                                                                                                                           = 00000010
SYS$OPEN
                                                    ******
                                                                    GX
SYS PUT
                                                                                                                                           = 00000001
                                                    ******
                                                                    GX
SYS$PUTMSG
                                                                                                                                           = 00000008
                                                    ******
                                                                    GX
                                                                                                                                           = 00000006
SYS$QIO
                                                    ******
                                                                    GX
                                                    ***** GX
                                                                                                                                           = 00000004
SYSSQIOW
SYSSREWIND
                                                                                                                                           = 00000007
                                                    ***** GX
SYS$SETAST
                                                                                                                                           = 00000031
                                                    ****** GX
SYS$SETIMR
                                                                                                                                           = 00000009
                                                    ***** GX
                                                    ***** GX
SYS$SETPRN
                                                                                                                                           = 0000000A
                                                    ***** GX
SYS$SETSFM
                                                                                                                                           = 00000007
                                                    ***** GX
                                                                            Ŏ5
                                                                                           UNTESTABLE
SYS$TRNLOG
                                                                                                                                               00000285 R
                                                                                                                                                                       02
                                                                            ŎŠ
SYS$TRUNCATE
                                                    *******
                                                                    GX
SYSSUPDATE
                                                    ******
                                                                            Õ5
                                                                    GX
TEMP_BUFF_DESC
TEMP_BUFF_STR
TESTABLE
                                                                            03
03
                                                    0000038F R
                                                    00000397 R
0000026C R
                                                 = 00000019
TESTABLE_LEN
```

20

6E 6E 74 65

6E 6C 65 63 2E

20 69 76

20 67 72

20 40 20

```
VAX/VMS UETP SYSTEM CONFIGURATION SIZER
UETINITO1
                                                                                     16-SEP-1984 00:24:38 VAX/VMS Macro V04-00 5-SEP-1984 04:35:35 [UETPSY.SRC]UETINITO
                                                                                                                                                     52
(28)
Psect synopsis
                                                                                                               CUETPSY.SRCJUETINITO1.MAR:1
                                                          Psect synopsis!
PSECT name
                                                             PSECT No.
                                     Allocation
                                                                         Attributes
------
   ABS
                                     00000000
                                                             00
                                                                    0.)
                                                                          NOPIC
                                                                                                                                 NOWRT NOVEC BYTE
                                                                                   USR
                                                                                          CON
                                                                                                 ABS
                                                                                                        LCL NOSHR NOEXE NORD
                                     00000000
0000063E
00000770
00000034
SABSS
                                                       Ŏ.)
                                                             Ŏ1
                                                                          NOPIC
                                                                                   USR
                                                                                                        LCL NOSHR
                                                                    1.)
                                                                                          CON
                                                                                                 ABS
                                                                                                                     EXE
                                                                                                                             RD
                                                                    2.)
3.)
                                                             Ŏ2
03
RODATA
                                                   1598.)
                                                                          NOPIC
                                                                                   USR
                                                                                          CON
                                                                                                 REL
                                                                                                        LCL NOSHR NOEXE
                                                                                                                             RD
                                                                                                                                 NOWRT NOVEC PAGE
RUDATA
                                                   1904.)
                                                                          NOPIC
                                                                                   USR
                                                                                          CON
                                                                                                        LCL NOSHR NOEXE
                                                                                                 REL
                                                                                                                             RD
                                                                                                                                    WRT NOVEC PAGE
                                                   52.)
3930.)
SRMSNAM
                                                                         NOPIC
                                                                                   USR
                                                                                          CON
                                                                                                 REL
                                                                                                        LCL NOSHR
                                                                                                                     EXE
                                                                                                                             RD
                                                                                                                                    WRT NOVEC BYTE
UETINITO1
                                     00000F5A
                                                                          NOPIC
                                                                                                        LCL NOSHR
                                                                                   USR
                                                                                          CON
                                                                                                 REL
                                                                                                                      EXE
                                                                                                                             RD
                                                                                                                                 NOWRT NOVEC PAGE
                                                       Performance indicators
Phase
                             Page faults
                                               CPU Time
                                                                Elapsed Time
                                       29
Initialization
                                               00:00:00.07
                                                                00:00:00.38
                                     111
Command processing
                                               00:00:00.70
                                                                 00:00:03.81
                                               00:00:31.42
                                     668
                                                                00:01:01.50
Pass 1
Symbol table sort
                                                                00:00:07.14
                                     420
Pass 2
                                               00:00:07.77
                                                                00:00:16.55
Symbol table output
                                       28
                                               00:00:00.28
                                                                00:00:00.60
Psect synopsis output
                                               00:00:00.03
                                                                00:00:00.03
Cross-reference output
                                               00:00:00.00
                                                                00:00:00.00
Assembler run totals
                                    1263
                                               00:00:43.61
                                                                00:01:30.07
The working set limit was 2000 pages.
177751 bytes (348 pages) of virtual memory were used to buffer the intermediate code. There were 120 pages of symbol table space allocated to hold 2174 non-local and 65 local symbols.
2096 source lines were read in Pass 1, producing 43 object records in Pass 2.
76 pages of virtual memory were used to define 68 macros.
                                                     Macro library statistics !
Macro library name
                                                    Macros defined
                                                                2
0
63
65
_$255$DUA28:[SHRLIB]UETP.MLB:1
_$255$DUA28:[SYS.OBJ]LIB.MLB:1
_$255$DUA28:[SYSLIB]STARLET.MLB:2
TOTALS (all libraries)
2550 GETS were required to define 65 macros.
There were no errors, warnings or information messages.
MACRO/LIS=LISS:UETINITO1/OBJ=OBJS:UETINITO1 MSRCS:UETINITO1/UPDATE=(ENHS:UETINITO1)+EXECMLS/LIB+SHRLIBS:UETP/LIB
```

NO.

41

6F

68 4E 74

53 76 70

6F 75 73 5F

20 6D 6F 72

50 50

6F 20 4C 20 0427 AH-BT13A-SE

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